DUBLIN
SAN RAMON
SERVICES
DISTRICT



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925 828 0515

May 24, 2005

Mr. Dave Todd Supervising Land and Water Use Analyst Office of Water Use Efficiency Post Office Box 942836 Sacramento, CA 94236-0001

Subject:

Dublin San Ramon Services District

"2005 Urban Water Management Plan Update"

Dear Mr. Todd:

The Dublin San Ramon Services District (DSRSD) has completed the preparation of its "2005 Urban Water Management Plan Update" (2005 UWMP). The DSRSD 2005 UWMP has been prepared in accordance with the California Water Code Division 6, Part 2.6 "Urban Water Management Planning", Sections 10610 through 10657.

On May 17, 2005 the DSRSD Board of Directors adopted the 2005 UWMP at its regularly scheduled meeting. Please consider this letter and the enclosed DSRSD 2005 UWMP as the required DSRSD submittal to the Department of Water Resources in accordance with California Water Code Section 10644.

Please contact me at (925) 875-2242 if you have any questions.

Sincerely,

David K. Behrens, P.E.

K Behene

Principal Engineer

DKB:mb Enclosure

cc:

Bert Michalczyk

Dave Requa

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DUBLIN SAN RAMON SERVICES DISTRICT 7051 Dublin Blvd., Dublin, CA 94568

Mr. Dave Todd

Supervising Land and Water Use Analyst Office of Water Use Efficiency

Posse Office Pay 042926

Post Office Box 942836 Sacramento, CA 94236-0001

It is a pleasure to send the enclosed material to you



Dublin San Ramon Services District

Urban Water Management Plan 2005 Update Final

Prepared by
West Yost & Associates
May 2005

TABLE OF CONTENTS

EXE	CUTIVE SUMMARY	.1
1.0	INTRODUCTION	. 1
1.1	PURPOSE	. 1
1.2	PLAN CONTENTS AND ORGANIZATION	. 1
1.3	GLOSSARY OF TERMS AND ACRONYMS	. 2
2.0	PLAN PREPARATION, COORDINATION AND ADOPTION	. 5
2.1	PLAN PREPARATION	. 5
2.2	PUBLIC INVOLVEMENT	
2.3	OTHER AGENCY INVOLVEMENT	. 5
2.4	PLAN ADOPTION	
3.0	BACKGROUND	. 6
3.1	DSRSD HISTORY	. 6
3.2	WATER SERVICE AREA, CONNECTIONS AND POPULATION	
3.3	DOUGHERTY VALLEY SETTLEMENT AGREEMENT	
3.4	OVERVIEW OF DSRSD'S WATER SYSTEM	
3.4		
3.4		
3.4	·	
4.0	EXISTING WATER SUPPLY SOURCES	15
4.1	DSRSD WATER SUPPLY CONTRACT WITH ZONE 7	15
4.1		
4.1	.2 Water Supply Contract Provisions	15
4.1	.3 Zone 7 Water Supply Sources	16
	1.1.3.1 State Water Project (SWP) Water	
	1.1.3.2 Byron Bethany Irrigation District	18
	1.1.3.3 Arroyo Del Valle Watershed Flows	
	1.1.3.4 Local Groundwater	
	1.3.5 Local Storage	
	1.1.3.6 Non-Local Groundwater Storage Capacity	
	1.1.3.7 Recycled Water	
4.2	DSRSD GROUNDWATER	
4.3	DSRSD RECYCLED WATER	
5.0		
5.1	RELIABILITY OF EXISTING SUPPLY SOURCES	
5.1		20 24
	5.1.1.1 Water Supply Reliability Policy	
	5.1.1.2 SWP Supply Reliability	
	5.1.1.3 Groundwater Reliability	41

	5.1.1.4 Water Quality	
5.1	5.1.1.5 Planned Water Supply Projects	
-	1.3 Emergency Connections with EBMUD and City of Pleasanton	
5.2	NEED/POTENTIAL FOR ADDITIONAL WATER SUPPLIES	
5.2		
	2.2 Opportunities for Short-Term or Long-Term Water Exchanges	
	5.2.2.1 Zone 7: Cawelo Water District	
	5.2.2.2 DSRSD: Berrenda Mesa Water District	31
5.2	T.F.	
5.2		
	2.5 Drought Contingency Measures	
6.0	PAST, PRESENT AND PROJECTED WATER DEMAND	
6.1	HISTORICAL AND CURRENT WATER DEMANDS	33
6.2	PROJECTED WATER DEMANDS	33
7.0	SUPPLY AND DEMAND COMPARISON	42
7.1	COMPARISON OF HISTORIC SUPPLY AND DEMAND	42
7.2	COMPARISON OF NORMAL, DRY AND MULTIPLE DRY WATER YEARS	
7.3	FUTURE SUPPLY RELIABILITY IN SINGLE DRY AND MULTIPLE	
	DRY YEARS	43
8.0	WATER DEMAND MANAGEMENT MEASURES	48
8.1	DMM 1: WATER SURVEY PROGRAMS FOR SINGLE FAMILY AND MULTI-	
	FAMILY RESIDENTIAL CUSTOMERS	48
8.2	DMM 2: RESIDENTIAL PLUMBING RETROFIT	48
8.3	DMM 3: SYSTEM WATER AUDITS, LEAK DETECTION AND REPAIR	51
8.4	DMM 4: METERING WITH COMMODITY RATES FOR ALL NEW	
	CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS	52
8.5	DMM 5: LARGE LANDSCAPE CONSERVATION PROGRAMS AND	
	INCENTIVES	
8.6	DMM 6: HIGH-EFFICIENCY WASHING MACHINE REBATE PROGRAMS	
8.7	DMM 7: PUBLIC INFORMATION PROGRAMS	
8.8	DMM 8: SCHOOL EDUCATION PROGRAMS	55
8.9	DMM 9: CONSERVATION PROGRAMS FOR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL ACCOUNTS	55
8.10	DMM 10: WHOLESALE AGENCY PROGRAMS	
8.11	DMM 11: CONSERVATION PRICING	56
8.12	DMM 12: WATER CONSERVATION COORDINATOR	58
8.13	DMM 13: WATER WASTE PROHIBITIONS	
8.14		-
-	PROGRAMS	58
9.0	WATER SHORTAGE CONTINGENCY PLAN	
9.1	OVERVIEW	60

9.2	STAGES OF ACTION	60
9.2	2.1 Stage I - Voluntary Water Conservation	61
9.2	2.2 Stages II, III and IV - Mandatory Water Use Reduction	
9.3	ESTIMATED MINIMUM WATER SUPPLY FOR NEXT THREE YEARS	65
9.4	DROUGHT/EMERGENCY PLANNING ACTIONS	66
9.4	·	
9.4		
9.4		
	l.4 Earthquake	67
9.4	L5 Emergency Water Supply for Dougherty Valley	
9.5	MANDATORY PROHIBITIONS AND RESTRICTIONS	67
9.6	WATER RATES AND PENALTIES FOR EXCESSIVE USE	67
9.7	REVENUE AND EXPENDITURE ANALYSIS	68
9.7		
9.7	7.2 Drought Surcharge	69
9.7	7.3 Zone 7 Drought Contingency Fund	69
9.8	MECHANISMS FOR DETERMINING ACTUAL WATER USE REDUCTIONS	69
10.0	WATER RECYCLING PROGRAMS	71
10.1	EXISTING WASTEWATER COLLECTION, TREATMENT AND DISPOSAL	
	SYSTEMS	71
10.2	SAN RAMON VALLEY RECYCLED WATER PROGRAM	
10.3	CURRENT AND POTENTIAL RECYCLED WATER USE	73
10.4	PROJECTED RECYCLED WATER USE	
10.5	ACTIONS TO ENCOURAGE USE OF RECYCLED WATER	
REF	ERENCES	75

APPENDIX A. California Urban Water Management Planning Act

APPENDIX B. Resolution to Adopt the 2005 Urban Water Management Plan

APPENDIX C. Water Supply Contracts and Agreements

Contract between Zone 7 Water Agency and Dublin San Ramon Services District for a Municipal & Industrial Water Supply

Amendment No. 1 to Contract between Zone 7 Water Agency and Dublin San Ramon Services District for a Municipal & Industrial Water Supply (for supply to Dougherty Valley Service Area)

Agreement Concerning Implementation of Water Service for the Dougherty Valley Project

1999 Point of Delivery Agreement among the Department of Water Resources of the State of California, Zone 7 and the Kern County Water Agency

Amended Agreement between Zone 7 and Semitropic Water Storage District and its Improvement Districts for a Zone 7-Semitropic Water Banking and Exchange Program

APPENDIX D. Ordinances Related to Water Conservation and Water Recycling

DSRSD Ordinance No. 242 Determining and Declaring a Water Emergency

DSRSD Ordinance No. 244 Amending Section 6 of Ordinance No. 242

DSRSD Ordinance No. 301 Formally Establishing the Rules and Regulations Governing the Use of Recycled Water

City of Dublin Ordinance No. 18-92 Water Efficient Landscape Ordinance

APPENDIX E. Final Revised Water Service Analysis for Eastern Dublin

APPENDIX F. CUWCC Best Management Practices Report Filing 03-04

LIST OF TABLES

Table 3-1. DSRSD Customer Types	7
Table 3-2. Climate Data	8
Table 3-3. DSRSD Water Service Area Population Projections	8
Table 4-1. Summary of Zone 7 SWP Entitlements	17
Table 4-2. Zone 7 Main Groundwater Basin Hydrologic Inventory and Storage (1999 – 2003)	20
Table 4-3. Zone 7 Supplies and Available Dry Year Storage	22
Table 5-1. Historical Drought Conditions and SWP Deliveries	27
Table 6-1. Historic Water Use Within DSRSD Service Area (1975-2004)	34
Table 6-2. 2003 Potable Water Use by Customer Location and Type	35
Table 6-3. Projected Potable and Recycled Water Demands within DSRSD's Water Service Area	36
Table 6-4. Projected Potable Water Demand at Buildout	37
Table 6-5. Projected Recycled Water Demand at Buildout	38
Table 7-1. Comparison of Projected Water Supply and Demand in Normal Years	44
Table 7-2. Projected Water Supply and Demand in Dry Water Years (Assuming No Reduction in Demand)	45
Table 7-3. Projected Water Supply and Demand in Dry Water Years (Assuming Reduction in Demand)	45
Table 7-4. Comparison of Projected Water Supply and Demand in Single Dry Years	46
Table 7-5. Comparison of Projected Water Supply and Demand in Multiple Dry Years	47
Table 8-1. Urban Water Management Planning Act Demand Management Measures	49
Table 8-2. DSRSD Annual Ultra-Low Flow Toilet Rebates	51

Table 8-3. DSRSD Annual High-Efficiency Washing Machine Rebates	54
Table 8-4. DSRSD Current Residential Water Rates	56
Table 8-5. DSRSD Current Commercial Water Rates	57
Table 8-6. DSRSD Current Commercial Wastewater Rates	57
Table 9-1. DSRSD Water Use Reduction Plan	60
Table 9-2. Water Use Reduction Goals by Customer Type	62
Table 9-3. Mandatory and Suggested Conservation Measures	63
Table 9-4. Water Shortage Emergency Allocation Table	
Table 9-5. Water Shortage Emergency Excess Use Charges	68
Table 10-1. DSRSD Annual Recycled Water Production	73
Table 10-2. Projected Recycled Water Demands within DSRSD's Service Area	74
LIST OF FIGURES	
Figure 3-1. Potable Water Service Area	11
Figure 3-2. DSRSD Water Service Area Population	12
Figure 3-3. Existing Potable Water System	13
Figure 3-4. Existing Recycled Water System	14
Figure 4-1. Zone 7 Main Groundwater Basin Storage Levels (1974-2003)	25
Figure 6-1. DSRSD Historic Potable and Recycled Water Use (1975-2004)	
Figure 6-2. DSRSD Per Capita Potable Water Use (1983-2004)	40
Figure 6-3, DSRSD Historic and Projected Potable and Recycled Water Demand	41

EXECUTIVE SUMMARY

This 2005 Urban Water Management Plan (UWMP) for the Dublin San Ramon Services District (DSRSD) has been prepared in accordance with the requirements of the Urban Water Management Planning Act (most recently amended in 2004). A copy of the UWMP Act is contained in Appendix A of this 2005 UWMP. The requirements for an UWMP have changed somewhat since DSRSD prepared its 2000 UWMP. As such, this 2005 UWMP contains information not contained in previous versions of the UWMP, including additional analysis of water supply reliability and additional information on DSRSD's implementation of demand management measures.

The California Department of Water Resources has prepared a "Guidebook to Assist Water Suppliers in the Preparation of a 2005 Urban Water Management Plan," and "Review for Completeness" forms for use by water suppliers in preparing 2005 UWMPs. These materials have been very useful in the preparation of this 2005 UWMP for DSRSD.

To assist DWR in the review of this 2005 UWMP, the "Review for Completeness" forms have been filled out, and included as part of this 2005 UWMP. The following forms demonstrate the completeness of this 2005 UWMP, and provide references to applicable sections.

2005 Urban Water Management Plan "Review for Completeness" Form

			For DWR F	Review Staff	Use			
337E 70	MALERA (NORMACO) (CORC					With Cont	HONO OF THE	4)6
Ye	<u>s</u>							
	Participated in area, regional, v	vatershed or ba	asin wide plan			N/A	Reference & P	-
	Name of plan		Lead Agency		-	N/A	Reference & P	age Number
Х	Describe the coordination of th	e plan preparat	tion and anticipa	ated benefits.		SECTION 2.2	Reference & P	age Number
				Table 1				
			Coordination	with Appropri	ate Agencies			
	THE PERSON NAMED IN	*****	THE STATES	Attended "	Wes	Was sent a	Was sent a	Not involve
	Check at least one box one	Participated in developing	Commented	public	contacted for	copy of the	notice of 3	/ No
	* a each row	the plan	on the craft	meetings	assistance	draft plan	intention to	Information
	THE PARTY OF	e destrocasión	以下的根据	- X4:32 Z	The Court of the	PAST CH	🤲 adopt 📑	Contract of the
	Other water suppliers	<u> </u>	X			X	X	
	Water management agencies		X		X	X	X	
	Relevant public agencies :		X			X	X	
	Public		X	X			X	
	Other	ļ	<u> </u>	L	L	<u> </u>	<u> </u>	<u> </u>
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х	Date updated and adopted plan	· · · · · · · · · · · · · · · · · · ·		(enter date)			Reference & P	age Number
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CHARLES.	ARCHITALONNE MODERNICA STATE	in the				Will Home	8(0.27(15))	
X	Notify any city or county within		UWMP of plan	review & revisi	on		Reference & P	age Number
X	Consult and obtain comments		•				Reference & P	•
اسسية							•	•
STUD	ACCEPTATION OF THE PARTY OF THE					Comments.	(CE(O))	
X	Include current and projected p	opulation				SECTION 3.2	Reference & P	age Number
X	Population projections were ba	sed on data fro	om state, region	al or local agen	су	TABLE 3-3	Reference & P	age Number
								•
				ote 2				l.
	the Control of the Control		pulation - Curr					ł
	11.00 (1.00	2005	2010	2015		2025		ļ
	Service Area Population	47,754	63,590	72,820	78,617	78,617	78,617	J
ভিন	Describe aliments also as a desired			-1		05051011.0	5 (6 5	.
Θ	Describe climate characteristic						Reference & P	-
	Describe other demographic fa	ctors affecting	water managen	nent		SECTION 3.2	Reference & P	age Number
			Tab	ile 3				1
				nate				
	。 (1) 10 10 10 10 10 10 10 10 10 10 10 10 10	' January	February	: March	April	May	June	1
	Standard Average ETo	0.82	1.47	2.92	4.4	5.57	6.66	1
	Average Rainfall	2.99	2.77	2.47	0.96	0.43	0.09	1
	Average Temperature	47.2	51.1	53.8	57.7	62.8	68.3	1

THE RESERVE OF THE PARTY OF THE	🧐 January 🦈	February	a March ※	April 🚴	May 1	June
Standard Average ETo	0.82	1.47	2.92	4.4	5.57	6.66
Average Rainfall	2.99	2.77	2.47	0.96	0.43	0.09
Average Temperature	47.2	51.1	53.8	57.7	62.8	68.3

Table 3 (continued)						
Climate						
July 🚣	August	September.	October :	November*	December :	Annual
7.4	6.35	4.73	3.34	1.54	1.01	46.21
0.03	0.08	0.24	0.84	1.88	2.04	14.82
72	71.9	69.6	63.2	53.2	47	59.81666667
	7.4 0.03	7.4 6.35 0.03 0.08	Climate July August September. 7.4 6.35 4.73 0.03 0.08 0.24	Climate July August September October 2 7.4 6.35 4.73 3.34 0.03 0.08 0.24 0.84	Climate September Cotober November 7.4 6.35 4.73 3.34 1.54 0.03 0.08 0.24 0.84 1.88	Climate September October November December 7.4 6.35 4.73 3.34 1.54 1.01 0.03 0.08 0.24 0.84 1.88 2.04

	San try	Notice Force (Control):
X	Identify existing and planned water supply sou	SECTION 4.0 Reference & Page Number
X	Provide current water supply quantities	SECTION 4.0 Reference & Page Number
X	Provide planned water supply quantities	SECTION 4.0 Reference & Page Number

1

		Table 4				
	Current and Pl	anned Water S	Supplies - AFY			
- Water Supply Sources	2005	2010	2015	2020	2025	2030 - opt
Water purchased from:				artini, je kaje	The second of the second	The Day of the
U.S. Büreau of Reclamation						

Department of Water Resources						
Arcade Water District						
Callegues Municipal Water District						
Castaic Lake Water Agency						
- Central Basin Municipal Water District				<u> </u>		
Chino Basin Municipal Water District						
Coestal Municipal Water District						
Contra Costa Water District						
Eastern Municipal Water District						
Foothill Municipal Water District (1997)						
Humboldt Bay Municipal Water District						
Inland Empire Utilities Agency				<u> </u>		
Joint Regional Water Supply System				<u> </u>		
Kern County Water Agency						
Metropolitan Water District of Southern Ca				<u> </u>		
Municipal Water District of Orange County						
North of The River Municipal Water Distric						
Placer County Water Agency 2005	······					
Secremento County Water Management D				 		
San Diego County Water Authority						
San Francisco City of San Francisco						
San Juan Water District						
San Luis Obispo County						
Santa Clara Valley Water District						
Solano County Water Agency						
Sonoma County Water Agency						
Stockton East Water District		**		<u> </u>		
Tehachapi-Cummings County Water Distri						
*Three Valleys Municipal Utility District						
Upper San Gabriel Valley Municipal Water						
Water Facilities Authority				 		
West Basin Municipal Water District				····		
Western Municipal Water Dist of Riverside						
Zone 7	9,905	12,755	14,655	16,455	16,455	16,455
Other Wholesaler 1 (enter agency name)		, , , , , , , , , , , , , , , , , , , ,				· · · · ·
Other Wholesaler 2 (enter agency name)			-			
Other Wholesaler 3 (enter agency name)						
Supplier produced groundwater	645	645	645	645	645	645
Supplier surface diversions	0	0	0	0	0	0
Transfers in or out	0	0	0	0	0	0
Exchanges In or out	0	0	ō	0	0	0
Recycled Water (projected use)	2,000	2,700	3,250	3,700	3,700	3,700
Desalination	0	0	0,200	0,750	0,700	ō,,, o
Other			<u> </u>	1		
Other						
Total		N. 2000 AV A 4 2 4 4 4	14 W 100 100 1			

	mara and		 (1) こしてみてき、ダネイグをも付きする(でき)
	X	Has management plan	SECT 4.1.3.4 Reference & Page Number
		Attached management plan (b)(1)	N/A Reference & Page Number
ĺ	X	Description of basin(s) (b)(2)	SECT 4.1.3.4 Reference & Page Number
		Basin is adjudicated	No Reference & Page Number
		If adjudicated, attached order or decree (b)(2)	N/A Reference & Page Number
	X	Quantified amount of legal pumping right (b)(2)	SECT 4.2 Reference & Page Number

Table 5	
Groundwater Pumping Rights - AF	Year
Besin Name	Pumping Right - AFY
Livermore Valley GW Basin: Main Basin	645
Livermore Valley GW Basin: Fringe Basin	Unlimited
Total	645

	Total we be as a sager	645		
X	DWR identified, or projected to be, in overdraft (b)(2) Plan to eliminate overdraft (b)(2) Analysis of location, amount & sufficiency, last five years.	•	N/A	Reference & Page Number Reference & Page Number Reference & Page Number

Table 6					
Amount of Groundwater pumped - AFY					
a Basin Name (s) 🖰 🚓	2000 • A	2001	2002	2003	£ 2004
Livermore Valley GW Basin	0	0	0	0	0
% of Total Water Supply	0.00%	0.00%	0.00%	0.00%	0.00%

		Table 7	···		
Amount of Groundwater projected to be pumped - AFY					
Basin Name(s) 2010 2015 2020 2025 2025 2030 - opt			2030 - opt		
Livermore Valley GW Basin	645	645	645	645	645
% of Total Water Supply	4.0%	:::::::::::::::::::::::::::::::::::::	3.1%	3.1%	3.1%

The first of the second of the

Describes the reliability of the water supply and vulnerability to seasonal or climatic shortage

SECT 5.2.3 Reference & Page Number

		Table 8			
	Supply	Reliability - A	F Year		
CHECK TO VE	发展的数据	TAKE TO A	海Multiple Dry	Water Years	を記録され
Average / Normal Water	Single Dry Water Year	Year	Year 2	Year 3	Year 4
100	100	100	100	100	100
% of Normal	33442100.0%	100.0%	100.0%	∴ 6100.0%	100.0%

Table 9	
Basis of Water Year Data	
Water Year Type	Base Year(s)
Average Water Year	2005
Single-Dry Water Year	1977
Multiple-Dry Water Years	1989-1992

SECT 7.2 Reference & Page Number
TABLE 5-1 Reference & Page Number
TABLE 5-1 Reference & Page Number

The resident and the water of the control of the second se

Describe the reliability of the water supply due to seasonal or climatic shortages Describe the vulnerability of the water supply to seasonal or climatic shortages No unreliable sources SECT 5.1.1.2 Reference & Page Number
SECT 5.2.3 Reference & Page Number
N/A Reference & Page Number

Table 10			
ng in inconsist	ency of supply	,	
Legal	Environ- mental	Water Quality	Climatic
	Х		X
		X	
	g in inconsist	g in inconsistency of supply	g in inconsistency of supply Environ- Water Quality

X Describe plans to supplement or replace inconsistent sources with alternative sources or DMMs
No inconsistent sources

SECT 5.1.1.4 Reference & Page Number

N/A Reference & Page Number

Arminal Constitution

Describe short term and long term exchange or transfer opportunities No transfer opportunities SECT 5.2.2 Reference & Page Number N/A Reference & Page Number

Table11 Transfer and Exchange Opportunities - AF Year					
Transfer Agency	Transfer or Exchange	Short term	Proposed Quantities	Long term	Proposed Quantities
Zone 7/Cawelo Water District	Banking Program			×	120,000 AF
DSRSD/Berrenda Mesa Water District	Transfer			×	5,000 AF

Total	i	0	0

1	CINCULATION	
	Quantify past water use by sector	
X	Quantify current water use by sector	
	Project future water use by sector	

-William	DECEMONO):
NO DATA	Reference & Page Number
TABLE 6-2	Reference & Page Number
NO DATA	Reference & Page Number

				TABLE 12 - Pa	ast, Current and	Projected Wa	ter Deliveries	
		20	00 2005					
	met	ered	unme	etered	met	ered	unme	tered
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AF
Single family	10,839	3,227				10,550		
Multi-family		213	No. of a	ccounts as of D	ecember 2004			
Commercial Section 1	505	1,271		Deliveries show	vn are for 2003			
Industrial Art Comment								
institutional/gov		1,284						
Landacape // ***	406	1,402						
Agriculture ************************************								
other 14 to 12 to		796						1
Total	12.288	22 48,193		- SE SAP 44 0	1913-1-2-0	10.550	- L- O	C

					TAB	LE12 (continue	d) - Past, Curre	nt and Project
		20	15			20:		
	met	ered	unme	etered	met	ered	unme	tered
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AF
Single family		15,300				17,100		
Multi-family								
Commercial Commercial								
Industrial Annual Control								
Institutional/gov								
Landscape								
Agriculture								
other said said at		i				· · · · · · · · · · · · · · · · · · ·		
Total	= 0	15,300	0	0	0	17,100	. 0	O

i identii	y and quantify sales to other agencies
	les to other agencies

N/A	Reference & Page Number
N/A	Reference & Page Number

		Table	e 13						
Sales to Other Agencies - AF Year									
Water Distributed	2000 🐃	2005 🚁	2010	2015	3 2020	2025	- 2030 - opt		
None		0	. 0	0	0	0	0		
							**		
Total	organization of	0.00	30.0	50	18 -45 -60		33 3 5 A O		

X Identify and quantify additional water uses

TABLE	6-4	Reference	&	Page	Number

		Table	: 14				
	Addition	al Water Uses	and Losses - A	AF Year			
Water Use	2000	^ ½ 2005	2010	2015	2020	2025	2030 - opt
Saline barriers	0	0	0	0	0	0	0
Groundwater recharge	0	0	0	0	0	0	0
Conjunctive use	Data show	wn for 2000 is 2	2003 data				
raw water	0	0	0	0	0	0	0
recycled	749	2000	2700	3250	3700	3700	3700
other (none)	0	0	0	0	0	0	0
Unaccounted-for system losses	793						
Total	?≘ ?≥1,542	2,000	2,700	3,250	3,700	3,700	3,700

	Table 15						
Total Water Use - AF Year							
Water Use 15 This water 4 2000 V	2005 2010	2015	2020 2025 2030 - opt				
Total of Tables 12, 13, 14 9,735	12,550 16,100	18,550	20,800 20,800 20,800 -				

suppliers that are California Urban Water Conservation Council members may submit the annual reports identifying water demand ement measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g). opplier's CUWCC Best Management Practices Report should be attached to the UWMP. Agency is a CUWCC member 2003-04 annual updates are attached to plan Both annual updates are considered completed by CUWCC website SECTION 8.0 APPENDIX F Reference & Page Number Reference & Page Number		and the second	all persons as partition of contracted and	THE RESERVE AND ADDRESS OF THE PARTY OF THE				
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Both annual updates are considered completed by CUWCC website NO Reference & Page Number (1) (1) (2) (3) (4) (5) (4) (5) (7) (8) (9) (9) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (1) (2) (3) (4) (4) (4) (5) (6) (7) (7) (7) (8) (9) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Describes opportunities for development Water Brackleh groundwater a suppliers that are California Urban Nagement measures currently being im	elopment of descriptions of the second of th	alinated water, in the check if year NONE NONE NONE NONE NONE NONE NONE NON	mgd ultimate 3 mgd per pha including, but ne	ot limited to, oc	ean water, brack	f(((s) s))) cish water, and t((s) s(i)); ying water dem	groundwater, a
Yes X Agency receives, or projects receiving, wholesale water SECT 4.1 Reference & Page Number	Treatment Plant Zone 7/Wellhead Demineralization Project Describes opportunities for development Sources of Water Brackleh ocean water Brackleh groundwater suppliers that are California Urban Nagement measures currently being im upplier's CUWCC Best Management	elopment of descriptions of the second of th	alinated water, in the check if year NONE NONE NONE NONE NONE NONE NONE NON	mgd ultimate 3 mgd per pha including, but ne	ot limited to, oc	ean water, brack	cish water, and	groundwater, a and and (g).
Yes X Agency receives, or projects receiving, wholesale water SECT 4.1 Reference & Page Number	Describes opportunities for development Bracklish ocean water Bracklish ocean water Bracklish groundwater In suppliers that are California Urban Ingement measures currently being impuplier's CUWCC Best Management Agency is a CUWCC member 2003-04 annual updates are at	elopment of descriptions of the second of th	alinated water, in the Check If yes NONE NONE NONE NONE stion Council mucheduled for interest should be at	mgd ultimate 3 mgd per pha including, but ne embers may sunplementation, itached to the U	ot limited to, oc	ean water, brack	cish water, and water, and water, and water, and water demonstrations (f). Reference & F	groundwater, as and and (g).
Yes X Agency receives, or projects receiving, wholesale water SECT 4.1 Reference & Page Number	Describes opportunities for development Brackleh groundwater	elopment of descriptions of the second of th	alinated water, in the Check If yes NONE NONE NONE NONE stion Council mucheduled for interest should be at	mgd ultimate 3 mgd per pha including, but ne embers may sunplementation, itached to the U	ot limited to, oc	ean water, brack I reports identify quirements of s SECTION 8.0 APPENDIX F	cish water, and water, and water, and water demonstrations (f): Reference & F Reference & R	groundwater, a and and (g). Page Number
X Agency receives, or projects receiving, wholesale water SECT 4.1 Reference & Page Number	Zone 7/Wellhead Demineralization Project Describes opportunities for devices of Well Opportunities for Sources of Well Occen Water Brackish occen water Brackish groundwater suppliers that are California Urban Ingement measures currently being impuplier's CUWCC Best Management Agency is a CUWCC member 2003-04 annual updates are at Both annual updates are considered.	elopment of descriptions of the second secon	alinated water, in the control of th	mgd ultimate 3 mgd per pha including, but not a sembers may sunplementation, trached to the University	ot limited to, oc	ean water, brack reports identify quirements of s SECTION 8.0 APPENDIX F NO	cish water, and ying water demi ubdivisions (f) Reference & F Reference & F	groundwater, a and and (g). Page Number
Agency provided written demand projections to wholesaler, 20 years SECT 4.1 Reference & Page Number TABLE 7-1 Reference & Page Number	Zone 7/Wellhead Demineralization Project Describes opportunities for development Sources of Water Brackish ocean water Brackish groundwater suppliers that are California Urban opportunities currently being imapplier's CUWCC Best Management Agency is a CUWCC member 2003-04 annual updates are at Both annual updates are considered.	elopment of descriptions of the second secon	alinated water, in the control of th	mgd ultimate 3 mgd per pha including, but not a sembers may sunplementation, trached to the University	ot limited to, oc	ean water, brack reports identify quirements of s SECTION 8.0 APPENDIX F NO	cish water, and ying water demi ubdivisions (f) Reference & F Reference & F	groundwater, a and and (g). Page Number
Agency provided written demand projections to wholesaler, 20 years IABLE 7-1 Heterence & Page Number	Zone 7/Weilhead Demineralization Project Describes opportunities for device Sources of Water Brackleh groundwater Suppliers that are California Urban Verenent measures currently being impopier's CUWCC Best Management Agency is a CUWCC member 2003-04 annual updates are at Both annual updates are considered.	elopment of descriptions of the second secon	alinated water, in the Check if year NONE NONE NONE attion Council mucheduled for interest of the check of th	mgd ultimate 3 mgd per pha including, but not a sembers may sunplementation, trached to the University	ot limited to, oc	ean water, brack reports identify quirements of s SECTION 8.0 APPENDIX F NO	cish water, and ying water demubdivisions (f) Reference & F Reference & F	and and (g). Page Number Page Number
	Zone 7/Wellhead Demineralization Project Describes opportunities for device Sources of Well Opportunities for Sources of Well Ocean Water Brackish groundwater Brackish groundwater suppliers that are California Urban Nagement measures currently being im upplier's CUWCC Best Management Agency is a CUWCC member 2003-04 annual updates are at Both annual updates are considered. Yes X Agency receives, or projects resident annual projects reside	elopment of design and the section of the section o	alinated water, in the control of the council of th	mgd ultimate 3 mgd per pha including, but not be the control of	ot limited to, oc	ean water, brack reports identify quirements of s SECTION 8.0 APPENDIX F NO SECT 4.1	cish water, and ying water demi ubdivisions (f) Reference & F Reference & F Reference & F	and and (g). Page Number Page Number

		Table 19			
Agency dem	and projection	s provided to	wholesale sup	pliers - AFY	
Wholesaler	2010	2015	2020	2025	2030 - opt
Zone 7 Water Agency	13,400				

Wholesaler provided written water availability projections, by source, to agency, 20 years TABLE 7-1 Reference & Page Number (if agency served by more than one wholesaler, duplicate this table and provide the source availability for each wholesaler)

		Table 20			
Wholesaler identifie					
** Wholesaler sources ***	2010 ×	2015 F	沙拉 2020 为	2025	2030 - opt
Zone 7 Supply Sources	12,755	14,655	16,455	16,455	16,45
	ļ				

Reliability of wholesale supply provided in writing by wholesale agency
(if agency served by more than one wholesaler, duplicate this table and provide the source availability for each wholesaler)

		Table 21								
Wholesale Supply Reliability - % of normal AFY										
DOCUMENTAL PROPERTY OF THE										
Wholesaler sources	Single Dry	্ৰ Year 1 🕱	** Year 2	Year 3	EYear 4					
State Water Project	11	36	36	36	36					
Groundwater	100	100	100	100	100					
Semitropic GW Banking Progra	100	100	100	100	100					

Table 22 Factors resulting in inconsistency of wholesaler's supply				
Name of supply Legal Environment Water Quality Climate				
State Water Project		х		X
Groundwater	l		Х	

	Since Department of the control of t			
Х	Provide stages of action		TABLE 9-1	Reference & Page Number
Х	Provide the water supply conditions for each stage		TABLE 9-1	Reference & Page Number
Х	Includes plan for 50 percent supply shortage		TABLE 9-1	Reference & Page Number

	Table 23		
. Wa	ater Supply Shortage Stages and Conditions RATIONING STAGES		
Stage No.	Water Supply Conditions	% Shor	tage
	. 75% of normal		25%
	60 to 75% of normal	25-40%	
III	50 to 60% of normal	40-50%	
IV	less than 50% of normal	>50%	

- Lunes	CONTRACTOR CONTRACTOR	1 61 IV - 10 IV	ा १८८८ में महाराज र (१८५२ में १))	
Х	Identifies driest 3-year period	SECT 9.3	Reference & Page Number	
Х	Minimum water supply available by source for the next three years	SECT 9.3	Reference & Page Number	

	Tabl	e 24			*
Three-Year Es	stimated Minim	ium Water Sup	ply - AF Year		c
SOURCe**	Normal	Year 1	Year 2	Year 3	to
Zone 7 Supplies	9,905	9,905	10,475	11,045	1
DSRSD Groundwater IQ	645	645	645	645	
Total	10,550	10,550	11,120	11,690	

*Note: If reporting after 2005, please change the column headers (Year 1, 2, & 3) to the appropriate years

Properties and the properties of the properties	ALL LANGUESA (ALL LANGUESA) PARA CARACTERÍSTICA (AL LA CARACTERÍST
X Provided catastrophic supply interruption plan	SECT 9.4 Reference & Page Number

Table 25

Preparation Actions for a Catastrophe	
Possible Catastrophe	*Check if Discussed
Regional power outage	Х
Earthquake	х
No water from State Water Project	x
No water from Zone 7	х

X List the mandatory prohibitions against specific water use practices during water shortages TABLE 9-3 Reference & Page Number

Table 26 Mandatory Prohibitions	
- Example of Front Rivers	Stage When Prohibition Becomes Mandatory
Using potable water for street washing	11
Use of hose to wash vehicles/boats	
Initial filling or complete replacement of water in swimming	11
Use of potable water for sewer flushing or street cleaning	ı
Use of potable water for compaction, dust control	ı
Restaurants to serve water only upon request	11
Irrigation scheduling (odd/even days, times of day)	

List the consumption reduction methods the water supplier will use to reduce water use in the most restrictive stages with up to a 50% reduction.

TABLE 9-3 Reference & Page Number to reduce water use in the most restrictive stages with up to a 50% reduction.

Table 27 Consumption Reduction Methods		
Consumption Reduction Methods	Stage When Method Takes Effect	Reduction
Use shut off nozzle on hoses	1	
Use a bucket to convey water ratherthan a hose	11	
Lawn irrigation scheduling (odd/even days, times of day)	11	
Cover pools and hot tubs when not in use	l:	
Sweep paved areas; do not wash down	I	
Use water conserving appliances	1	5-mm-

X List excessive use penalties or charges for excessive use SECT 9.6 Reference & Page Number

Table 28 Penalties and Charges	
Penalties and Charges Penalties of Charges	Stage When Penalty Takes Effect
Penalty for excess use	11
Charge for excess use	11

	Andaro Since more	AUGUSTE	(10)美国南)
Х	Describe how actions and conditions impact revenues	SECT 9.7	Reference & Page Number
X	Describe how actions and conditions impact expenditures	SECT 9.7	Reference & Page Number
Х	Describe measures to overcome the revenue and expenditure impacts	SECT 9.7	Reference & Page Number

Table 29 Proposed measures to overcome revenue impacts	
Names of measures	Check if Discussed
Rate adjustment	X
Development of reserves	N/A
Excess Use Charges	X
Drought Surcharge	X

Table 30	
Proposed measures to overcome expenditure impacts	
Names of measures	Check if
Names of measures	Discussed
Rate Adjustment	x
Excess Use Charges	x
Drought Surcharge	X
name of measure	

X Attach a copy of the draft water shortage contingency resolution or ordinance.

-{	W	et	•	C	ode	5	10	632	(h)))		
^	^	'n	М	ii.	, r	٦,	٥.	fora		9.	Daga	Numbe

Reduction Measuring Mechanism

X

Provided mechanisms for determining actual reductions

(Water Code § 10632 (i))

SECT 9.8 Reference & Page Number

Table 31 Water Use Monitoring Mechanisms						
Mechanisms for determining actual Type data expected (pop-up?)						
Monitor flow at Zone 7 turnouts	Compare consumption with previous periods					
Monthly billing of customers	More timely water use information to customers					
Identification of high water users	Provide notices and information to high water users					

Recycling Plan Agency Coordination

Water Code § 10633

Describe the coordination of the recycling plan preparation information to the extent availabl SECT 10.2.2 Reference & Page Number

Table 32 Participating agencies					
~ ~	participated				
Water agencies	X				
Wastewater agencies	X				
Groundwater agencies					
Planning Agencies					

Wastewater System Description

(Water Code § 10633 (a))

Describe the wastewater collection and treatment systems in the supplier's service area

SECT 10.1 Reference & Page Number

Quantify the volume of wastewater collected and treated

SECT 10.1 Reference & Page Number

		Table	: 33					
Wastewater Collection and Treatment - AF Year								
Type of Wastewater	2000	2005	2010	2015	2020	2025	2030 - opt	
Wastewater collected & treated in service	3,650	5,700	7.000	3.600	9,300	10.400	10,600	
area	3,630	5,700	7,000	3,600	9,300	10,400	10,600	
Volume that meets recycled water standard	34	2.000	2,700	3.250	3,700	3,700	3700	

Wastewater Disposal and Recycled Water Uses

Describes methods of wastewater disposal

Describe the current type, place and use of recycled water

None

Describe and quantify potential uses of recycled water

(Water Code § 10633 (a - d))

SECT 10.1 Reference & Page Number
SECT 10.3 Reference & Page Number
Reference & Page Number
SECT 10.3 Reference & Page Number

Table 34 Disposal of wastewater (non-recycled) AF Year

Method of disposal	Freakment Level	2005	2010	2015	2020	2025	2030 - opt
LAVWMA	Secondary						
Name of method							
Name of method						1	
Name of method							
	Total	· 0	T (2.50) 0	V 2 44 0		E	0. +. O

	, , , , , , , , , , , , , , , , , , ,	Table	e 35				
_			ctual and Poter				
	Treatment Level	2005	2010	2015	2020	2025 ₹5	2030 - opt
Agriculture		0	0	0	0	0	C
Landscape (S.F./	Tertiary	2,000	2,700	3,250	3,700	3,700	3,700
Wildlife Habitet	0	0	0	0	0	0	C
Wetlands (in the state of the s	0	0	0	0	0	0	C
Industrial 3	0	0	0	0	0	0	C
Groundwater Recharge	0	0	0	0	0	0	C
THE PARTY OF THE PARTY.	Total	2,000	2,700	3,250	3,700	3,700	3,700

X Determination of technical and economic feasibility of serving the potential uses

SECT 10.2.2 Reference & Page Number

TELECONOMIC SECURITY (SATE OF

X Projected use of recycled water, 20 years

COMMUNICATION OF THE PROPERTY OF

SECT 10.4 Reference & Page Number

Table 36							
Projected Future Use of Recycled Water in Service Area - AF Year							
は一般の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の	2010	∞≈ 2015 ः	2020	2025	2030 - opt		
Projected use of Recycled Water	2,700	3,250	3,700	3,700	3,700		

Compare UWMP 2000 projections with UWMP 2005 actual (§ 10633 (e))
None

SECT 10.4

Reference & Page Number Reference & Page Number

Table 37 Recycled Water Uses - 2000 Projection compared with 2005 actual - AFY 2000 Projection for 2005 Agriculture 0 0 950 Landecape 1,233 Wildlife Habitat 0 0 Wetlands 0 0 Industrial 0 0 **Groundwater Recharge** 0 0 Other (user type) 2004 projection shown 2004 demand shown Other (user type) Total 950 1,233

<u>:</u> '',	1.	ECOLARS ROOM (An INDECOMENT ACCE)	चेत्रा प्राप्तास्य हर्ष	18 (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
<u>></u>		Describe actions that might be taken to encourage recycled water uses		Reference & Page Number
2		rescribe projected results of these actions in terms of acre-less of recycled water used per-	SECT 10.4	Reference & Page Number

Table 38 Methods to Encourage Recycled Water Use						
	cted to result	from this actio	n			
Actions		2015			2030 - opt	
Financial incentives						
name of action						
name of action						
name of action	-					
name of action						
name of action			***************************************			
name of action						
name of action						
Total	0	0	O	0	5 5 5 5 0	

Provide a recycled water use optimization plan which includes actions to facilitate the use SECT 10.5 Reference & Page Number of recycled water (dual distribution systems, promote recirculating uses)

UL	50	THE STATE OF THE S			Will Co.	TO STI
×		Discusses water quality impacts (by source	upon water management	strategies and supply	SECT 5.1.1.4	Reference & Page Number
	L	No water quality impacts projected			N/A	•

	Table 39									
Current &	Current & projected water supply changes due to water quality - percentage									
water source	₹2. 2005 ·	. £2010 ·	÷ 2015 : ≥	× 2020 🚕	2025	2030 - opt				
None										
			I							

SULL CONSTRUCTOR STUDIES AND TO CONSTRUCT CONSTRUCTOR

Compare the projected normal water supply to projected normal water use over the next 20 years, in 5-year increments.

TABLE 7-1 Reference & Page Number

		Table 40							
Projected Normal Water Supply - AF Year									
(from table 4)	2010	2015	2020	1 × 2025	⊈2030 €opt				
Supply	₹ ₹₹16,100	18,550	1.55 \$ 20,800	20,800	建 定20,800				
% of year 2005	33-35-128.3%	147.8%	海海 165.7%	165.7%	####185.7%				

Table 41									
	Projected Normal Water Demand - AF Year								
(from table 15)	2010	2015	·** 2020 ***	> 2025 ×	≫2030 - opt				
Demand	Demand 16,100 16,100 16,1550 120,800 20,800 20,800								
% of year 2005	128.3%	147.8%	165.7%	165.7%	165.7%				

Table 42 Projected Supply and Demand Comparison - AF Year								
○ 対象を必要を、対象が対象	2010	<i>⇔</i> = 2015 ↔	∞ ≈ 2020 ~ ⊜	2025	2030 - opt			
Supply totals	×16100	18550	20800	20800	20800			
Demand totals	16100	18550	20800	20800	20800			
Difference	20	- 34.0		. 410. 2040	\$ 50° C			
Difference as % of Supply	0.0%	0.0%	0.0%	0.0%	0.0%			
Difference as % of Demand	0.0%	0.0%	- 0.0%	0.0%	0.0%			

TO THE STATE OF TH

Compare the projected single-dry year water supply to projected single-dry year water use TABLE 7-4 Reference & Page Number over the next 20 years, in 5-year increments.

		Table 43				
Pro	jected single c	iry year Water	Supply - AF Yo	ear		
というないない。	- 2010 · s	2015	2020	¥J 2025	2030 - opt	
Supply 13,400 15,300 17,100 17,100 17,10						
** % of projected normal	The state of the state of	7. 2.5	A CALL TO	49 PM	Contract Contract	

		Table 44						
Proje	Projected single dry year Water Demand - AF Year							
on the following the second control of the second	2010	2015	2020	2025	2030 - opt			
Demand 4	nd 10,750 12,325 13,675 13,675 13,675							
% of projected normal	\$1.50	tik Displayeria	1071347	一	7.78 W.			

		Table 45			
Projected sin	igle dry year S	upply and Den	nand Comparis	on - AF Year	
	· · · 2010	2015	2020	2025	2030 - opt
Supply totals	13,400	15,300	17,100	17,100	17,100
Demand totals	10,750	12,325	13,675	13,675	13,675
Difference : Diffe	2,650	2,975	3,425	3,425	3,425
Difference as % of Supply	19.8%	19.4%	20.0%	20.0%	20.0%
Difference as % of Demand	24.7%	24.1%	25.0%	25.0%	25.0%

Project a multiple-dry year period (as identified in Table 9) occurring between 2006-2010 TABLE 7-5 Reference & Page Number and compare projected supply and demand during those years

Table 46								
5000 A A M 化 水水洗料	2006	2007	2008	%42009 , <u>*</u>	₹ 2010 ·			
Supply *********					13,400			
		Marie a		***	AND NO.			

Table 47								
TO THE RESIDENCE OF THE SECOND	± 2006 ↓ ★	2007× -	2008	2009	2010			
Demend 4	8,730	9,235	9,740	10,245	10,750			
** % % % of projected normal	CACE 28-15	A Maria	10000	PART -	A CONTRACTOR OF THE PARTY OF TH			

Table 48								
	2006 A	2007a	6 2008 ° 12	#a-2009 ±*	2010			
Supply totals	AL 11.120	17,890	≯ ₩ 12,260	12,830	13,400			
Demand totals	8,730	9,235	: 新城 9,740	6 × 10,245	建施 等10,750			
Difference								
Difference as % of Supply								
Difference as % of Demand								

Project a multiple-dry year period (as identified in Table 9) occurring between 2011-2015 TABLE 7-5 Reference & Page Number and compare projected supply and demand during those years

Table 49								
でいるとあるとのなる。	≈. 2011 ∴	2012 - 5	2013	2014 -	2015			
Supply	13,780	14,160	14,540	14,920	15,300			
% of projected normal								

Table 50							
では春年のできる大き	2011	2012	∵2013 ∮	2014	2015		
Demand.	11,065	11,380	11,695	12,010	12,325		
% of projected normal	14 17 12 12	A	\$ 140 A.C.	"我是我们的	THE THE		

		Table 51			
- COMPANY OF THE PARTY.	2011	32012 ···	2013 A	2014	2015
Supply totals					
Demand totals					
Difference Control of the Control of					
Difference as % of Supply <					
Difference as % of Demand					

Project a multiple-dry year period (as identified in Table 9) occurring between 2016-2020 TABLE 7-5 Reference & Page Number and compare projected supply and demand during those years

		Table 52			
altant in all the same that the line is given	2016	2017	2018		2020
Supply with the same to	15,660	16,020	16,380	16,740	17,100
% of projected normal	The second second second		্ত্ৰ বিভাগ ক		55 % TX 3 TX 1

		Table 53			
	2016	2017	2018	2019	2020
Demand	12,595	12,865	13,135	13,405	13,675
% of projected normal	TARK LANGER	AND PROPERTY	. 5	A STATE OF THE STA	

		Table 54			
errene de Talle de A	2016	2017	2018	2019	2020
Supply totals	15,660			16,740	17,100

Demand/sotals	12;595	12;865	13,135	13,405	13,675
Difference	3,065	3,155	3,245	3,335	3,425
Difference as % of Supply	19.6%	્રે ≳ે 19.7%	19.8%	19.9%	20.0%
Difference as % of Demand	24.3%	24.5%	24.7%	24.9%	25.0%

Project a multiple-dry year period (as identified in Table 9) occurring between 2021-2025 TABLE 7-5 Reference & Page Number and compare projected supply and demand during those years

		Table 55			
THE REPORT OF THE	-10-2021 (A)	44.2022	2023 × 72	2024	2025
Supply ***********************************	17,100	17,100	17,100	17,100	17,100
**************************************	10 and a seek	ALC: UNITED HE	14世代	4 100 100 20	CAPACIFIC .

		Table 56			
	数 2021 建	2022 / 第	4 ± 2023 3 5	₩2024 S	£ 2025 ₹
Demand Street Mary 1982	13,675	13,675	13,675	13,675	13,675
*** % of projected normal	A STREET	A CONTRACT	本に対象を		のなるを

		Table 57			
THE SECTION SECTION	2021	2022 🔆 .	2023 XZ	÷ 2024;	→×2025 €
Supply totals	17,100	17,100	37,100	17,100	17,100
Demand totals	355 613,875	海溪13,675	13,675	13,875	13,675
Difference	3,425	3,425	3,425	3,425	3,425
Difference as % of Supply	20.0%	20.0%	20.0%	20.0%	20.0%
Difference as % of Demand					

Provide	nga Nanganga Kabanga kangangan kangan ka	Western	AUSTON)
2	Provided Water Service Reliability section of UWMP to cities and counties within which it provides water supplies within 60 days of UWMP submission to DWR	SECT 2.3	Reference & Page Number
Does i		Ramero	(\$639)
Х	Attach a copy of adoption resolution	APPENDIX B	Reference & Page Number
X	Encourage involvement of social, cultural & economic community groups	SECT 2.2	Reference & Page Number
X	Plan available for public inspection	SECT 2.2	Reference & Page Number
X	Provide proof of public hearing	APPENDIX B	Reference & Page Number
X	Provided meeting notice to local governments		Reference & Page Number
CULT	KIA INTONOMINTA ANGANJAN	William of the first of	C20048
X	Reviewed implementation plan and schedule of 2000 UWMP	SECT 2.1	Reference & Page Number
X	Implemented in accordance with the schedule set forth in plan	N/A	Reference & Page Number
X	2000 UWMP not required	N/A	Reference & Page Number
	and ship the filter and the another control	Contraction	e the registed of the
Х	Provide 2005 UWMP to DWR, and cities and counties within 30 days of adoption	SECT 2.4	Reference & Page Number
Jose V		CONTRACTOR	
х	Does UWMP or correspondence accompanying it show where it is available for public review		Reference & Page Number

12 5/11/2005

2005 Urban Water Management Plan "Review of DMMs for Completeness" Form For DWR Review Staff Use

West Str	vey Rogamusor Singe Family	yand Multi-an	Direction	lá icusiónico	(M214(D(O))	The second	
Impleme	entation					(Section 10631	(6)
X	Describe demand management	maasura aurran	thy boing imp	lamantad or sah	adulad for	SECT 8.1	Reference & Page Number
	implementation (10631 (f) (1)(2)		ay being imp	emented of sch	eduled for	3201 6.1	reference a rage Number
	Year program started	1999	or	Year program s	scheduled to sta	art _	
x	Describes steps necessary to in	nplement measu	re			SECT 8.1	Reference & Page Number
			Table A1				
	Actual	2001	2002	2003	2004	2005	
	# of single family surveys				84		
	# of multifamily surveys				10		
	actual expenditures - \$						
	actual water savings - AFY				· · · · · · · · · · · · · · · · · · ·		
		······································		<u> </u>	·		
			Table A2				
	Planned	2006	2007	2008	2009	2010	
	# of single family surveys						
	# of multifamily surveys						
	projected expenditures - \$						
	projected water savings - AFY						
	Describe the methods, if any, us demand management measure		ne effectiven	ess of this		N/A	Reference & Page Number
	Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4))					N/A	Reference & Page Number
Provided	d an evaluation for this DMM if i	t ie not implem	anted			(Section 10631	(a))
	Evaluate legal authority	t is not impleme	riteu	Tabl	e A3 - 10631 ((9))
L	(10631 (g)(4))				fectiveness Su		
	Evaluate economic and non-eco	onomic factors		Total Costs		,	
	(10631 (g)(1))			Total Benefits			
	Evaluate environmental, social,	health factors		Discount Rate			
<u></u>	(10631 (g)(1))			Time Horizon			
	Evaluate customer impact & tec	hnological factor	s	Cost of Water	(\$ per AF)		
	(10631 (g)(1))			Water Savings	(AFY)		
	Describe efforts to work with oth implementation (10631 (g)(4))	er relevant agen	cies to ensu	re implementatio	n of the measu	re and to share t	he cost of
	Describe funding available to im	plement any pla	nned water s	upply project tha	t would provide	water at a highe	er unit cost (10631 (g)(3) & (h))
If Anothe	er Agency implementing						
	If another Agency is implementing	na (10631 (a)(4))			Agenc	y Name	 1
					N		
Residenti	a Dumbing Remails (16.53 kill)	(ID) Harry					12.00
Implomon	tation					(0 II 10001	(0.6.0.)
Implemen X	Describe demand management implementation (10631 (f) (1)(2)	measure current	ty being impl	lemented or sche	eduled for	(Section 10631 SECT 8.2	(f) & (n)) Reference & Page Number
	Year program started	1992	or	Year program s	cheduled to sta	art _	
X 5/11/	Describes steps necessary to im	plement measur	re		,	SECT 8.2	Reference & Page Number Page 1

	# of pre-1992 SF accounts	5000		# of pre-1992 N	1F accounts	1000	
		_::::::	Table B1	*11 1 1 1 1 1 1		<u> </u>	
	Actual	1992-2001	2002	2003	2004	2005	
	# of single family devices	1050	80		2004	2005	
	# of multi-family devices	1000		100			
	actual expenditures - \$	\$78,750	\$6,000	\$10,425	\$2,175		
	actual water savings - AFY	\$59	\$4	 	\$2		
		400			V -		
			Table B2				
	Planned	2006	2007	2008	2009	2010	
	# of single family devices						
	# of multi-family devices						
	projected expenditures - \$						
	projected water savings - AFY						
×	Describe the methods, if any, us		the effectivene	ess of this		SECT 8.2	Reference & Page Number
X	demand management measure					CECT 0.0	Deference 9 Dags Number
لــــا	Provide estimates, if available, and the effect of such savings of					SECT 8.2	Reference & Page Number
	demand (10631(f)(4))						
Provided	d an evaluation for this DMM if	it is not implem	ented			(Section 10631	1 (g))
П	Evaluate legal authority	·		Tabl	e B3 - 10631 (g)(2)	1-11
	(10631 (g)(4))			Cost Eff	ectiveness Su	ımmary	
	Evaluate economic and non-eco	onomic factors		Total Costs			
	(10631 (g)(1))	•		Total Benefits			
	Evaluate environmental, social,	health factors		Discount Rate			
	(10631 (g)(1))			Time Horizon			
	Evaluate customer impact & ted	hnological facto	rs	Cost of Water			
	(10631 (g)(1))			Water Savings	(AFY)		
	Describe efforts to work with otr implementation (10631 (g)(4))	ner relevant age	ncies to ensur	e implementatio	n of the measu	re and to share	the cost of
П	Describe funding available to in	plement any pla	anned water st	upply project tha	t would provide	water at a high	ner unit cost (10631 (g)(3) & (h)
	-				. •	J	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
If Anothe	er Agency Implementing If another Agency is implementi	na (10621 (a)(4)	· · ·		Agono	y Name	
لسا	in allowed rigotios implement	ing (10001 (g)(+	''			/A	
				L			
STEETH	ligua de la	onigen a disconsi	40(4)(d))		1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m		and the state of t
,							
Implemen	ntation					(Section 10631	l (f) & (h))
×	Describe demand management		ntly being imple	emented or sche	duled for	SECT 8.3	Reference & Page Number
	implementation (10631 (f) (1)(2)	•		V			
	Year program started	1994	or	Year program s	cheduled to sta	arı -	
X	Describes steps necessary to in	nplement measu	ıre			SECT 8.3	Reference & Page Number
	Year of last complete audit	1994		Year of next cor	mplete audit		
			Table C1				
	Actual	2001	2002	2003	2004	2005	
	% of unaccounted water	14.7	9.5	8.8			
	miles of mains surveyed						
	miles of lines repaired						
5/11/	/2005						Page 2

	actual expenditures - \$						
	actual water savings - AFY						
							•
			Table C2				
	Planned	2006	2007	2008	2009	2010	
	% of unaccounted water						
	miles of mains surveyed						
	miles of lines repaired						
	projected expenditures - \$						
	projected water savings - AFY			1	***		
X	Describe the methods, if any, understand management measured Provide estimates, if available, and the effect of such savings of demand (10631(f)(4))	(10631 (f)(3)) of existing cons	ervation savin	gs on water use		SECT 8.3	Reference & Page Number
ovide	d an evaluation for this DMM if	it is not impler	nented			(Section 1063	1 (g))
	Evaluate legal authority			Table	e C3 - 10631 (· (3//
	(10631 (g)(4))				fectiveness Si	• · · ·	
	Evaluate economic and non-ec	onomic factors		Total Costs		T	
	(10631 (g)(1))			Total Benefits			
	Evaluate environmental, social,	health factors		Discount Rate			
	(10631 (g)(1))			Time Horizon			
	Evaluate customer impact & ted	chnological fact	ors	Cost of Water			
	(10631 (g)(1))	ŭ		Water Savings	(AFY)		
Anothe	implementation (10631 (g)(4)) Describe funding available to ine er Agency Implementing					ire and to share e water at a high	
Anothe		nplement any pl	lanned water s		t would provide		
	Describe funding available to in er Agency Implementing If another Agency is implement	nplement any pl ing (10631 (g)(4	lanned water s		t would provide	e water at a high y Name	
	Describe funding available to in er Agency Implementing	nplement any pl ing (10631 (g)(4	lanned water s		t would provide	e water at a high y Name	
emen	Describe funding available to in er Agency Implementing If another Agency is implement	ing (10631 (g)(4	lanned water s	upply project tha	Agenc N	y Name //A (Section 1063	ner unit cost (10631 (g)(3) &
lemen	Describe funding available to inter Agency Implementing If another Agency is implement Tation Describe demand management implementation (10631 (f) (1)(2)	ing (10631 (g)(4	anned water s (i)) ently being imple	upply project tha	Agenc N	y Name //A (Section 1063	ner unit cost (10631 (g)(3) &
lemen	Describe funding available to interpret another Agency is implemented in the control of the cont	ing (10631 (g)(4	anned water s (i)) ently being imple	upply project tha	Agenc N eduled for	y Name //A (Section 1063 SECT 8.4 art SECT 8.4	ner unit cost (10631 (g)(3) &
ei (b) A	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management Implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest the implementation of the implement	ing (10631 (g)(4	anned water s (i)) ently being imple	emented or sche	Agenc N eduled for	y Name //A (Section 1063 SECT 8.4 art SECT 8.4	ner unit cost (10631 (g)(3) &
ei (b) A	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management Implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest the implementation of the implement	ing (10631 (g)(4	anned water s i)) ontty being impl or ure	emented or sche	Agenc N eduled for	y Name //A (Section 1063 SECT 8.4 art SECT 8.4	ner unit cost (10631 (g)(3) &
lemen	Describe funding available to in er Agency Implementing If another Agency is implement Total number of accounts	nplement any pling (10631 (g)(4	anned water s ontly being impl or ure	emented or sche Year program s # of accounts w	Agenc N eduled for scheduled to sta	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
elemen	Describe funding available to in er Agency Implementing If another Agency is implement Intation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in Total number of accounts	nplement any pling (10631 (g)(4	anned water s (i)) ontty being implor or ure Table D1 2002	emented or sche Year program s # of accounts w	Agenc N eduled for scheduled to sta	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
lemen	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity re	nplement any pling (10631 (g)(4	anned water s (i)) ontty being implor or ure Table D1 2002	emented or sche Year program s # of accounts w	Agenc N Agence	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
Eri Cua	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity radictual expenditures - \$	ing (10631 (g)(4 (10631 (g)(4 (g)(4 (10631 (g)(4 (g	anned water s intly being impl or ure Table D1 2002	emented or sche Year program s # of accounts w	Agenc Agenc N eduled for scheduled to start of the commodity of the com	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
en ca	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity re	ing (10631 (g)(4 (10631 (g)(4 (g)(4 (10631 (g)(4 (g	anned water s intly being impl or ure Table D1 2002	emented or sche Year program s # of accounts w	Agenc Agenc N eduled for scheduled to start of the commodity of the com	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
ei (b) A	Describe funding available to inter Agency Implementing If another Agency is implement Intation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to interest to interest accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity radictual expenditures - \$	ing (10631 (g)(4 (10631 (g)(4 (g)(4 (10631 (g)(4 (g	ently being implored or ure	emented or sche Year program s # of accounts w	Agenc Agenc N eduled for scheduled to start of the commodity of the com	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) &
El tra	Describe funding available to interpret the ser Agency Implementing If another Agency is implement Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to int Total number of accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity rate actual expenditures - \$ actual water savings - AFY	ing (10631 (g)(4 (10631 (g)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)	anned water s intty being impl or ure Table D1 2002 0 Table D2	emented or sche Year program s # of accounts w	Agenc N Agence	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates 2005 0	ner unit cost (10631 (g)(3) & 1 (f) & (h)) Reference & Page Numbe
en tra	Describe funding available to interpret the ser Agency Implementing If another Agency is implement Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to int Total number of accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity reactual expenditures - \$ actual expenditures - \$ actual water savings - AFY	ing (10631 (g)(4 (10631 (g)(4 (g)(4 (10631 (g)(4 (g	ently being implored or ure	emented or sche Year program s # of accounts w	Agenc Agenc N eduled for scheduled to start of the commodity of the com	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates	ner unit cost (10631 (g)(3) & 1 (f) & (h)) Reference & Page Numbe
elemen	Describe funding available to interpret the ser Agency Implementing If another Agency is implement Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to int Total number of accounts Actual # of unmetered accounts # of retrofit meters installed # of accounts w/o commodity rate actual expenditures - \$ actual water savings - AFY	ing (10631 (g)(4 (10631 (g)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)	anned water s intty being impl or ure Table D1 2002 0 Table D2	emented or sche Year program s # of accounts w	Agenc N Agence	y Name //A (Section 1063 SECT 8.4 art SECT 8.4 rates 2005 0	ner unit cost (10631 (g)(3) & 1 (f) & (h)) Reference & Page Numbe

		ites									
	projected expenditures - \$						1				
	projected water savings - AFY				1		1				
х	Describe the methods, if any, us demand management measure		the effectivene	ess of this		SECT 8.4	Reference & Page Number				
	Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4))	•	•	-	•	N/A	Reference & Page Number				
Provide	d an evaluation for this DMM if i	it is not impler	mented			(Section 1063	N1 (a))				
	Evaluate legal authority	it is not imple	nonca	Tah	ole D3 - 10631	<u></u>	,. (g <i>))</i> 1				
ш	(10631 (g)(4))				iffectiveness S		1				
	Evaluate economic and non-eco	onomio factore		Total Costs	.necuveness s	T T	-				
L	(10631 (g)(1))	Jilomic lactors		Total Benefits	_						
	Evaluate environmental, social,	health factors		Discount Rate			1				
	(10631 (g)(1))	nealli lactors		Time Horizon			4				
		hadagical fact	ore	Cost of Water			-				
ш	Evaluate customer impact & tec	amological lace	ois				4				
	(10631 (g)(1))			Water Saving	S (AFT)	1	J				
	Describe efforts to work with other relevant agencies to ensure implementation of the measure and to share the cost of implementation (10631 (g)(4)) Describe funding available to implement any planned water supply project that would provide water at a higher unit cost (10631 (g)(3) & (h)										
lf Amadh	Ananau luan la										
IT Anoth	er Agency Implementing If another Agency is implementing	na (10621 (a)(/	4))								
لبا	in another Agency is implement	ng (10631 (g)(2	+))		Agen						
				L		N/A					
Implemen					and und for	(Section 1063	,, ,				
	ntation Describe demand management	measure curre			neduled for	(Section 1063 SECT 8.5	31 (f) & (h)) Reference & Page Number				
Implemen	ntation	measure curre		emented or sch	neduled for scheduled to s	SECT 8.5	,, ,				
Implemen	ntation Describe demand management implementation (10631 (f) (1)(2)	measure curre)) 1998	ently being impl	emented or sch		SECT 8.5	,, ,				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started	measure curre)) 1998	ently being impl	emented or sch		SECT 8.5	Reference & Page Number				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started	measure curre)) 1998	ently being impl	emented or sch Year program		SECT 8.5	Reference & Page Number				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in	measure curre)) 1998	ently being impl	emented or sch Year program # of landscape	scheduled to s	SECT 8.5 tart SECT 8.5 budgets	Reference & Page Number				
Implemen	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in	measure curre)) 1998	ently being impl	emented or sch Year program # of landscape	scheduled to s	SECT 8.5 SECT 8.5 budgets be surveys	Reference & Page Number				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in	measure curre)) 1998	ently being impl	emented or sch Year program # of landscape	scheduled to s accounts with nts w/ landscap	SECT 8.5 SECT 8.5 budgets be surveys	Reference & Page Number				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in	measure curre)) 1998 nplement meas	ently being impl	emented or sch Year program # of landscape	scheduled to s accounts with nts w/ landscap	SECT 8.5 SECT 8.5 budgets be surveys	Reference & Page Number				
Implemen X	ntation Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in	measure curre)) 1998 nplement meas	ently being impl or sure	emented or sch Year program # of landscape	scheduled to s accounts with nts w/ landscap	SECT 8.5 SECT 8.5 budgets be surveys	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in # of landscape accounts # of CII accounts	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in # of landscape accounts # of CII accounts Actual # of budgets developed	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$	measure curre)) 1998 nplement meas	ontly being impl or sure	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$	measure curre)) 1998 nplement meas	ontly being implion	emented or sch Year program # of landscape # of Cil accoun	scheduled to s accounts with nts w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$ actual water savings - AFY	measure curre 1) 1998 nplement meas 2001	ontly being implion or sure Table E1 2002	emented or sch Year program # of landscape # of Cil account	e accounts with this w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen X	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to in # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$ actual water savings - AFY	measure curre 1) 1998 nplement meas 2001	ontly being implion or sure Table E1 2002	emented or sch Year program # of landscape # of Cil account	e accounts with this w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$ actual water savings - AFY Planned # of budgets developed # of surveys completed	measure curre 1) 1998 nplement meas 2001	ontly being implion or sure Table E1 2002	emented or sch Year program # of landscape # of Cil account	e accounts with this w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$ actual water savings - AFY Planned # of budgets developed # of surveys completed # of follow-up visits	measure curre 1) 1998 nplement meas 2001	ontly being implion or sure Table E1 2002	emented or sch Year program # of landscape # of Cil account	e accounts with this w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				
Implemen	Describe demand management implementation (10631 (f) (1)(2) Year program started Describes steps necessary to im # of landscape accounts # of CII accounts Actual # of budgets developed # of surveys completed # of follow-up visits actual expenditures - \$ actual water savings - AFY Planned # of budgets developed # of surveys completed	measure curre 1) 1998 nplement meas 2001	ontly being implion or sure Table E1 2002	emented or sch Year program # of landscape # of Cil account	e accounts with this w/ landscap (CII mixed use	SECT 8.5 SECT 8.5 budgets be surveys e meters)	Reference & Page Number				

5/11/2005

Х	Describe the methods, if any, us demand management measure			SECT 8.5	Reference & Page Number		
	Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4))	of existing conse				N/A	Reference & Page Number
Provide	ed an evaluation for this DMM if i	t is not implem	ented			(Section 1063	i1 (a))
	Evaluate legal authority			Table	E3 - 10631 (1
ш	(10631 (g)(4))				ectiveness S		1
	Evaluate economic and non-eco	nomio footoro		Total Costs	ecuveriess 5	innia y	•
ليا		Monne racions					4
	(10631 (g)(1))			Total Benefits			
Ш	Evaluate environmental, social,	health factors		Discount Rate			
	(10631 (g)(1))			Time Horizon			
Ш	Evaluate customer impact & tec	hnological facto	rs	Cost of Water			
	(10631 (g)(1))			Water Savings	(AFY)		
G G Apott	Describe efforts to work with oth implementation (10631 (g)(4)) Describe funding available to implementation						
II Anou	ner Agency implementing	(40004 (-)(4)					
Ш	If another Agency is implementing (10631 (g)(4))				···	y Name	
					N	/A	ALC: NO.
mpleme X	Philadrical Principles of the control of the contro	measure currer) 1998	or	-	cheduled to st	SECT 8.6	Reference & Page Number
Х	Describes steps necessary to in	nplement measu	ire			SECT 8.6	Reference & Page Number
			Table F1				
	Actual	2001	2002	2003	2004	2005	
	\$ per rebate	75	75	75	75	75	
	# of rebates paid	115	246	328	80		1
	actual expenditures - \$	\$8,625	\$18,450	\$24,600	\$6,000		
	actual water savings - AFY	\$2	\$4	\$5	\$1		
							,
			Table F2				
	Planned	2006	2007	2008	2009	2010	1
,	14 · · · · · · · · · · · · · · · · · · ·						
	\$ per rebate						
	\$ per rebate # of rebates paid						
	<u>' </u>						
	# of rebates paid						
	# of rebates paid projected expenditures - \$						
	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us		he effectivene	ss of this		N/A	Reference & Page Number
×	# of rebates paid projected expenditures - \$ projected water savings - AFY	(10631 (f)(3)) of existing conse	ervation saving	ıs on water use		N/A SECT 8.6	Reference & Page Number Reference & Page Number
	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us demand management measure Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4))	(10631 (f)(3)) of existing consented in the supplier's	ervation saving ability to furthe	ıs on water use		SECT 8.6	Reference & Page Number
	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us demand management measure Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4)) and an evaluation for this DMM if it	(10631 (f)(3)) of existing consented in the supplier's	ervation saving ability to furthe	is on water use er reduce		SECT 8.6 (Section 1063	Reference & Page Number
	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us demand management measure Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4)) and an evaluation for this DMM if it is Evaluate legal authority	(10631 (f)(3)) of existing consented in the supplier's	ervation saving ability to furthe	s on water use er reduce Table	• F3 - 10631 (SECT 8.6 (Section 1063	Reference & Page Number
	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us demand management measure Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4)) and an evaluation for this DMM if it	(10631 (f)(3)) of existing consented in the supplier's	ervation saving ability to furthe	s on water use er reduce Table Cost Effe	• F3 - 10631 (g	SECT 8.6 (Section 1063	Reference & Page Number
Provide	# of rebates paid projected expenditures - \$ projected water savings - AFY Describe the methods, if any, us demand management measure Provide estimates, if available, of and the effect of such savings of demand (10631(f)(4)) and an evaluation for this DMM if it is Evaluate legal authority	(10631 (f)(3)) of existing consented the supplier's tis not implement	ervation saving ability to furthe	s on water use er reduce Table		SECT 8.6 (Section 1063	Reference & Page Number

	(10631 (g)(1))		Total Benefit	ts					
	Evaluate environmental, social, health factors		Discount Ra	te					
	(10631 (g)(1))		Time Horizon						
	Evaluate customer impact & technological fact	ors	Cost of Wate	er					
	(10631 (g)(1))		Water Saving	gs (AFY)					
	Describe efforts to work with other relevant age	encies to ensur	e implementat	ion of the meas	sure and to share	the cost of			
	implementation (10631 (g)(4))								
	Describe funding available to implement any p	lanned water s	upply project tl	nat would provi	de water at a high	er unit cost (10)631 (g)(3) & (h))		
If Anothe	other Agency Implementing If another Agency is implementing (10631 (g)(4)) Agency Name								
					N/A		j		
5157575							ł		
districting	द्रमार्विद्रमान्यसम्बद्धाः । । । । । । । । । । । । । । । । । । ।					- 	j		
nplemen	tation				(Section 1063)	1 (5))			
X	Describe demand management measure curre	antly being impl	emented or so	heduled for	SECT 8.7		Page Number		
ت	implementation (10631 (f) (1)(2))	sindy being impi	0.11011100 01 30	neddied ioi	02010.7				
	Year program started	or	Year program	scheduled to	start				
		•	, ,		1		•		
X	Describes steps necessary to implement meas	sure			SECT 8.7	Reference &	Page Number		
		Table	e G1						
	Actual	2001	2002	2003	2004	2005			
	a. paid advertising						}		
	b. Public Service Announcement								
	c. Bill Inserts / Newsletters / Brochures	х	х	×	Х	X			
	d. Bill showing water usage in comparison to	х	х	V	х	х			
	previous year's usage	<u> </u>	^	X	^				
	e. Demonstration Gardens	x	X	X	X	X			
	f. Special Events, Media Events	X	Х	X	X	X	1		
	g. Speaker's Bureau						1		
	h. Program to coordinate with other government agencies, industry and public interest groups and media								
	actual expenditures - \$						j		
		-		-			- -		
		Table	e G2				1		
	Planned	2001	2002	2003	2004	2005	1		
	a. paid advertising				_		1		
	b. Public Service Announcement			ļ	-				
	c. Bill Inserts / Newsletters / Brochures	<u> </u>		ļ			1		
,	d. Bill showing water usage in comparison to previous year's usage								
	e. Demonstration Gardens						i		
	f. Special Events, Media Events						ļ		
	g. Speaker's Bureau								
	h. Program to coordinate with other						İ		
	government agencies, industry and public interest groups and media								
	Projected expenditures - \$			1			1		
	Describe the methods, if any, used to evaluate demand management measure (10631 (f)(3))	the effectivene	ess of this	N/A	Reference &	Page Number	•		
Dun det d	I am anathraki a da sakk massa ta sa				, <u> </u>	4.7.33			
Provided	an evaluation for this DMM if it is not impler	mented			(Section 1063	i (g))			
	Evaluate legal authority			ble G3 - 10631					
5/11/	(10631 (g)(4)) 2005		Cost I	Effectiveness	Summary		Page 6		

	Evaluate economic and non-e	economic factors		Total Costs		T		
-	(10631 (g)(1))			Total Benefits	3			
	Evaluate environmental, socia	al, health factors		Discount Rate	e			
	(10631 (g)(1))			Time Horizon				
	Evaluate customer impact & t	echnological facto	ors	Cost of Water	•			
	(10631 (g)(1))			Water Saving	s (AFY)			
	Describe efforts to work with a implementation (10631 (g)(4)) Describe funding available to)						631 (g)(3) & (h)
If Anoth	er Agency Implementing							
	If another Agency is implement	nting (10631 (g)(4)))		Agen	icy Name		
					·	N/A		
经变值	<u> </u>	$(\mathbf{s} \cdot \hat{\mathbf{f}}(\mathbf{t}))^{s}$:	
m <u>pleme</u> r	ntation					(Section 1063	1 (f) & (h))	
×	Describe demand manageme		ntly being imp	lemented or sch	eduled for	SECT 8.8	Reference & F	Page Number
	implementation (10631 (f) (1)	(2))					•	
	Year program started		or	Year program	scheduled to	start		
X	Describes steps necessary to			SECT 8.8	Reference & F	age Number		
	Table H1	No. o	of class preser	ntations				
	Actual	# of classes	2001	2002	2003	2004	2005	
	Grades K-3rd	1		†				
	Grades 4th-6th							
	Grades 7th-8th							
	High School							
	actual expenditures - \$							
	Table H2			No. o	of class preser	ntations		
	Actual	# of classes	2006	2007	2008	2009	2010	
	Grades K-3rd							
	Grades 4th-6th				<u> </u>			
	Grades 7th-8th							
	High School							
	projected expenditures - \$			<u></u>				
	Describe the methods, if any, demand management measu		the effectiven	ess of this	N/A	Reference &	Page Number	
	Did your agency's material me	et state education	n framework r	equirements?	N/A	Reference &	Page Number	
Provide	d an evaluation for this DMM	if it is not implem	ented			(Section 1063	1 (g))	
	Evaluate legal authority	-		Tab	le H3 - 10631			
	(10631 (g)(4))				ffectiveness			
	Evaluate economic and non-e	economic factors		Total Costs				
	(10631 (g)(1))			Total Benefits	3			
	Evaluate environmental, socia	al, health factors		Discount Rate	e			
	(10631 (g)(1))			Time Horizon				
	Evaluate customer impact & t	echnological facto	rs	Cost of Water	•	-		
	(10631 (g)(1))			Water Saving	s (AFY)			
	Describe efforts to work with o		ncies to ensu	re implementation	on of the meas	sure and to share	the cost of	
	implementation (10631 (g)(4)) Describe funding available to	•	anned water s	supply project the	at would provi	de water at a high	ner unit cost (10	631 (g)(3) & (h)

5/11/2005 Page 7

If Anoth	er Agency implementing						
	If another Agency is implement		Ager	ncy Name			
	3 ,		***			N/A	
				L			
·	NON-THE PROPERTY OF THE PARTY O	Maria Printer Printer	ad amiliation	1503110310	r esta e com		Jackson Control of the Control of th
	and references to the property of the second	or the Salarapan areas conserved trapped	tina iliya dinasirki yaki masoria dinaski il ma		<u> </u>		
mpleme	ntation					(Section 106	31 /f) & /h)\
X	Describe demand managemen	t meacure curr	adulad for	SECT 8.9	Reference & Page Number		
لتا	implementation (10631 (f) (1)(2		endy being im	plemented or sch	eduled lot	3EC1 6.9	_ riolorence a rage ramber
	Year program started	-//	or	Year program	scheduled to	etart	
	real program started		- 01	real program	scrieduled to	Start	
х	Describes steps necessary to it	molement mea	RIIFA			SECT 8.9	Reference & Page Number
	# of Commercial accounts		ustrial accounts		-	_	
	# Of Commercial accounts		- #0111101	usmai accounts		# Of Institu	tional accounts
		·	Table I1				7
	Actual	2001	2002	2003	2004	2005	┪
	# of surveys completed					 	-1
	Were incentives provided?				×	- 	1
	# of follow-up visits		 				-
	actual expenditures - \$		-				-
							
	actual water savings - AFY	ł	L				J
			Table I2				7
	Planned	2006		2008	0000	1 0010	-{
		2006	2007	2008	2009	2010	-
	# of surveys completed Were incentives provided?				· /		-
			 				-
	# of follow-up visits						4
	projected expenditures - \$			-			-
	projected water savings - AFY	<u> </u>					J
	Describe the methods, if any, u		Abo officialization	ann af Abia		B1/A	Reference & Page Number
L	demand management measure		the enectives	iess of this		N/A	- Reference & Page Number
						NI/A	Reference & Page Number
ш	Provide estimates, if available, and the effect of such savings					N/A	- Reference & Fage Number
	demand (10631(f)(4))	on the supplier	s ability to furt	nei ieduce			
Provide	d an evaluation for this DMM if	it is not imple	mented			(Section 106	31 (a))
П	Evaluate legal authority	•		Tab	le l3 - 10631	 	7 ""
<u> </u>	(10631 (g)(4))				fectiveness		1
	Evaluate economic and non-ec	onomic factors		Total Costs		1	1
	(10631 (g)(1))			Total Benefits			1
	Evaluate environmental, social,	health factors		Discount Rate			1
ш	(10631 (g)(1))	,		Time Horizon			-
	Evaluate customer impact & ted	chnological fact	ors.	Cost of Water			-
ш	(10631 (g)(1))	omiologica, iaci	010	Water Savings	/AFV		-{
	(10001 (g)(1))			water Cavings	(/// //		_
	Describe efforts to work with ot	her relevant an	encies to ensi	re implementation	n of the mea	sure and to shar	e the cost of
لسا	implementation (10631 (g)(4))	noi reievant ag	C110103 10 01131	are implementatio	ii oi tile iiiea	Sule and to shar	6 the Cost of
		nolement anv o	lanned water	supply project tha	it would provi	ide water at a hid	gher unit cost (10631 (g)(3) & (h))
ليا	aranaga to m				und provi	at a flig	g (17)
If Anoth	er Agency Implementing						
	if another Agency is implement	ing (10631 (a)(4	4))		Ager	ncy Name	
	. , ,	J . 10/1				N/A	

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(this data is part of the Council Annual Report but is not specifically requested in the UWMP Act)

change

	Describe demand management implementation (10631 (f) (1)(2	t measure curr	ently being imp	plemented or sch	eduled for	N/A	Reference & Page Number
	Year program started		or_	Year program	scheduled to	start	
	Describes steps necessary to in	mplement mea	sure			N/A	Reference & Page Number
	<u> </u>		Table I4				
	Actual	2001	2002	2003	2004	2005	
	# of commercial replacements	2001	2002	2003	2004	2003	
	# of industrial replacements		 	<u> </u>			
	# of institutional replacements		†				
	actual expenditures - \$						
	actual water savings - AFY			T			
			Table I5	.,			
	Planned	2006	2007	2008	2009	2010	
	# of commercial replacements	· · · · · · · · · · · · · · · · · · ·					
	# of industrial replacements		· · ·	 			
	# of institutional replacements		ļ	<u> </u>			
	projected expenditures - \$				<u> </u>		
	projected water savings - AFY		<u> </u>	<u> </u>	<u> </u>		
	Describe the methods, if any, undemand management measure			ess of this		N/A	Reference & Page Number
	Provide estimates, if available,			ins on water use		N/A	Reference & Page Number
	and the effect of such savings of demand (10631(f)(4))	•		•			•
Provide	d an evaluation for this DMM if	it is not imple	mented			(Section 1063	1 (g))
	Evaluate legal authority	•		Tat	ole 16 - 10631		
	(10631 (g)(4))				ffectiveness		
	Evaluate economic and non-ec	onomic factors	1	Total Costs			
	(10631 (g)(1))			Total Benefits	;		
	Evaluate environmental, social,	health factors		Discount Rate	•		
_	(10631 (g)(1))			Time Horizon			
	Evaluate customer impact & ted	chnological fac	tors	Cost of Water	•		
	(10631 (g)(1))			Water Saving	s (AFY)		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Describe efforts to work with ott implementation (10631 (g)(4)) Describe funding available to in er Agency Implementing						the cost of ner unit cost (10631 (g)(3) & (h))
	If another Agency is implementi	ing (10631 (g)(4))	<u> </u>	Agen	ncy Name	
<u> </u>			,,			N/A	
						, , , , , , , , , , , , , , , , , , ,	
VI Closal	oz.loguev.Programe (i 1083 i 17)	Y(0)	10 (14 (14 (14 (14 (14 (14 (14 (14 (14 (14				
X	Not a wholesale agency						
mplemer	ntation					(Section 1063	1 (f) & (h))
Ш	Describe demand management implementation (10631 (f) (1)(2	t measure curr))	ently being imp	lemented or sch	eduled for	N/A	Reference & Page Number
	Year program started		or_	Year program	scheduled to	start	
	# of suppliers you serve		_				
	Describes steps necessary to in	nplement mea	sure			N/A	Reference & Page Number
	Table J1		Numb	er of agencies a	ssisted		
	program activities	2001	2002	2003	2004	2005	
		·········	 	 			_

6		· · · · · · · · · · · · · · · · · · ·			T	1			
Residential Retrofit			+						
System Audits									
Metering-Commodity R	ates	ļ		ļ					
Landscape Programs				<u> </u>	.				
Washing Machines		-		<u> </u>	<u> </u>				
Public Information		<u> </u>			 				
School Education		<u> </u>		ļ					
CII WC									
CIIULF									
Water Waste									
Pricing		ļ							
WC Coordinator		<u> </u>		ļ					
Water Waste		<u> </u>							
UFLT Replacement		<u> </u>							
actual expenditures - \$									
Table J2		Numbor	of agencies to I	an anniated		1			
program activities	2006	2007	2008	2009	2010				
Water Surveys	2000	2007	2008	2009	2010				
Residential Retrofit		<u> </u>		-					
System Audits									
Metering-Commodity Ra				 					
	iles								
Landscape Programs			 						
Washing Machines				ļ					
Public Information		4							
School Education									
CII WC		ļ							
CII ULF		ļ	-	ļ	ļ				
Water Waste		<u> </u>		-					
Pricing									
WC Coordinator		ļ		ļ	ļ				
Water Waste		ļ	ļ	ļ					
UFLT Replacement		-	ļ						
projected expenditures	· \$								
Describe the methods, i	f any, used to evaluat	e the effectiver	ess of this		N/A	Reference & Page Number			
demand management n						Defense A Demokration			
Provide estimates, if ava and the effect of such sa	Ailable, of existing cor	iservation savir	ngs on water use)	N/A	Reference & Page Number			
demand (10631(f)(4))	zvingo on the supplier	5 ability to lord	ici reddec			,			
						,			
led an evaluation for this I	MM IT IT IS not imple	mented		-l- 10 1005:	(Section 1063	1 (g)) I			
Evaluate legal authority				ole J3 - 10631					
(10631 (g)(4))				ffectiveness S	Summary				
Evaluate economic and	non-economic factors	3	Total Costs						
(10631 (g)(1))			Total Benefit						
Evaluate environmental	, social, health factors	•	Discount Rat						
(10631 (g)(1))			Time Horizon						
Evaluate customer impa	ct & technological fac	tors	Cost of Wate						
(10631 (g)(1))			Water Saving	s (AFY)					
Describe efforts to work	with other relevant aç	jencies to ensu	re implementati	on of the meas	ure and to share	the cost of			
implementation (10631)	(g)(4))								
Describe funding availal	ole to implement any p	olanned water s	supply project th	at would provid	le water at a high	ner unit cost (10631 (g)(3) & (h)			
her Agency Implementing									
If another Agency is imp		(4))	Agency Name						
	3 ,			Agency Name N/A					

entation Describe demand managimplementation (10631 (eing implemented or scheduled for	(Section 1063 SECT 8.11	Reference & Page Numb
Year program started	1992	or Year program scheduled to	start	
X Agency provides sewer	service			
Describes steps necessa	ary to implement measure		SECT 8.11	Reference & Page Numb
		Table K1		
		RETAILERS		
Residential				
Water Rate Structure	TWO TIER	Sewer Rate	Structure	FLAT RATE
Year rate effective	1992	Year rate eff	ective	1992
Commercial				
Water Rate Structure	TWO TIER	Sewer Rate	Structure	UNIFORM RATE
Year rate effective	1992	Year rate eff		1992
Industrial				
Water Rate Structure	pop-up list	Sewer Rate	Structure	pop-up list
Year rate effective		Year rate eff		рор ор по
Institutional/Governm	nent			
Water Rate Structure	pop-up list	Sewer Rate	Structure	pop-up list
Year rate effective		Year rate eff	ective	рор ор пос
Irrigation		rour rate on	00010	
Water Rate Structure	pop-up list		- · · · · · · ·	
Year rate effective	pop op not			
Other				
Water Rate Structure	pop-up list	Sewer Rate	Structure	non un liet
Year rate effective	pop-up list			pop-up list
real rate effective		Year rate eff	ective	
		Table K2	-	
		WHOLESALERS		
Water Rate Structure	pop-up list	WI O E COME IN COME		
Year rate effective	рор-ар нас			
ed an evaluation for this D	MM if it is not implemented		(Section 1063	1 (g))
Evaluate legal authority		Table K3 - 10631		
(10631 (g)(4))		Cost Effectiveness	Summary	
Evaluate economic and r	non-economic factors	Total Costs		
(10631 (g)(1))		Total Benefits	-	
Evaluate environmental,	social, health factors	Discount Rate		
(10631 (g)(1))		Time Horizon		
Evaluate customer impac	ct & technological factors	Cost of Water		
(10631 (g)(1))		Water Savings (AFY)		
Describe efforts to work	with other relevant agencies (g)(4))	to ensure implementation of the meas	sure and to share	the cost of
implementation (10631 (water supply project that would provi	de water at a high	ner unit cost (10631 (g)(3) 8
implementation (10631 (le to implement any planned			
implementation (10631 (Describe funding availab	le to implement any planned	,		
implementation (10631 (Describe funding availab her Agency Implementing				
implementation (10631 (Describe funding availab			nc y Name N/A	

X	Describe demand manageme		rently being im	plemented or scl	neduled for	SECT 8.12	Reference & Page Number
	implementation (10631 (f) (1) Year program started		or	Year program	scheduled to	start	
х	Describes steps necessary to	implement mea	asure			N/A	Reference & Page Number
			Table L1				Ī
	Actual	2001	2002	2003	2004	2005	
	# of full-time positions		1		1		1
	# of full/part-time staff		1	1	1	2 2	
	actual expenditures - \$		1		`	1	
				<u> </u>	<u> </u>		1
			Table L2				1
	Planned	2006	2007	2008	2009	2010	1
	# of full-time positions						ĺ
	# of full/part-time staff						
	projected expenditures - \$						1
							•
Provide	d an evaluation for this DMM	if it is not imple	emented			(Section 1063	1 (g))
	Evaluate legal authority			Tal	ble L3 - 10631	(g)(2)	1
	(10631 (g)(4))			Cost E	ffectiveness	Summary	1
П	Evaluate economic and non-	economic factor	s	Total Costs			1
	(10631 (g)(1))			Total Benefit	5		1
	Evaluate environmental, soci	al, health factors	5	Discount Rat	e	-	
	(10631 (g)(1))			Time Horizon	1		
	Evaluate customer impact & technological factors			Cost of Wate	r		
	(10631 (g)(1))			Water Saving	s (AFY)		
If Anoth	er Agency implementing			supply project th			her unit cost (10631 (g)(3) & (h))
	If another Agency is impleme	nting (10631 (g)	(4))		Age	ncy Name	
						N/A	
	au-401 Elemenes (166)	11111					
	V-51/A			<u> </u>	i		
Impleme	ntation					(Section 1063	1 (f) & (h))
X	Describe demand manageme	ent measure cur	rently being im	plemented or sch	neduled for	SECT 8.13	Reference & Page Number
	implementation (10631 (f) (1)	(2))	, ,	•			-
	Year program started	199	1 or	Year program	scheduled to	start	
X.	Describes steps necessary to	implement mea	asure			SECT 8.13	Reference & Page Number
		*	Table M1				1
	Actual	2001	2002	2003	2004	2005	
	waste ordinance in effect	x	X 2002	X	X 2004	X 2003	
	# of on-site visits						1
	water softener ordinance					- 	
	actual expenditures - \$	1				- 	
					<u> </u>		•
			Table M2				
	Planned	2006	2007	2008	2009	2010	
	waste ordinance in effect	х	х	х	х	x	
	# of on-site visits						
	water softener ordinance			1			
	projected expenditures - \$						
	/2005						Page 12

	Describe the methods, if any, us (10631 (f) (3))	sed to evaluate t	he effectivene		nd managemer N/A		Page Number
Provide	d an evaluation for this DMM if i	t is not implem	ented			(Section 106)	21 (a)\
	Evaluate legal authority	t is not impleme	enteu	(Section 106) Table M3 - 10631 (g)(2)			7 (9 <i>))</i>
ш	(10631 (g)(4))				ectiveness Su		-
	Evaluate economic and non-eco	nomic factors		Total Costs	ectiveness of	iiiiiiai y	-
ш	(10631 (g)(1))	monne ractors		Total Benefits			1
П	Evaluate environmental, social,	health factors		Discount Rate			1
<u> </u>	(10631 (g)(1))			Time Horizon			7
	Evaluate customer impact & tec	hnological factor	rs	Cost of Water			1
	(10631 (g)(1))	-		Water Savings	(AFY)]
If Anothe	er Agency Implementing	cost of impleme	entation (1063 nned water st	1 (g)(4))	t would provide	-	her unit cost (10631 (g)(3) & (h))
	If another Agency is implementing	ng (10631 (g)(4))		Agency		
					N	Ά	
Implemen X	Describe demand management implementation (10631 (f) (1)(2)	measure curren)		emented or sche	,	(Section 1063 SECT 8.14	31 (f) & (h)) Reference & Page Number
	Year program started	1994	or	Year program se	cheduled to sta	ırt	
	# of SF pre-1992 accounts						
х	Describes steps necessary to im	nplement measu	re		,	SECT 8.14	Reference & Page Number
	Table N1			Single-Family			1
	Actual	2001	2002	2003	2004	2005	1
	# of ULF rebates	95	80	139	29		1
	# of ULF direct installs						
	# of ULF CBO installs						
	actual expenditures - \$	\$7,125	\$6,000	\$10,425	\$2,175		1
	actual water savings - AFY	\$5	\$4	\$8	\$2]
	7-11-14-14-			Otract = "			7
	Table N2		2007	Single-Family			4
	# of ULF rebates	2006	2007	2008	2009	2010	-
,	# of ULF direct installs						
	# of ULF CBO installs						
	projected expenditures - \$						1
	projected water savings - AFY	+					-
	# of MF pre-1992 units		en e	<u></u>	, , _{, , , , ,} , , , , , , , , , , , ,		•
	Table N3			Multi-Family		······································	1
	Actual	2001	2002	2003	2004	2005	1
	# of ULF rebates						1
	# of ULF direct installs						1
	# of ULF CBO installs						1
	actual expenditures - \$						1
	actual water savings - AFY						1

	# Of ULF repates			l		1				
	# of ULF direct installs									
	# of ULF CBO installs					ĺ				
	projected expenditures - \$									
	projected water savings - AFY					İ				
	ls a toilet retrofit on resale ordin	nance in effect for your service	area?			•				
×	Provide estimates, if available,	of existing conservation savin	as on water use	and the effect of	of such savings					
L	on the supplier's ability to furthe	_		SECT 8.2	-	Page Number				
	(10631 (f)(4))		,		•	J				
Provided	d an evaluation for this DMM if	it is not implemented			(Section 1063	1 (g))				
	Evaluate legal authority		Tab	le N5 - 10631 (g)(2)	i				
	(10631 (g)(4))		Cost Effectiveness Summary							
	Evaluate economic and non-ec	onomic factors	Total Costs							
	(10631 (g)(1))		Total Benefits							
	Evaluate environmental, social,	health factors	Discount Rate	•						
	(10631 (g)(1))		Time Horizon							
	Evaluate customer impact & ted	hnological factors	Cost of Water							
	(10631 (g)(1))		Water Savings	s (AFY)						
	Describe efforts to work with other relevant agencies to ensure implementation of the measure and to share the cost of implementation (10631 (g)(4)) Describe funding available to implement any planned water supply project that would provide water at a higher unit cost (10631 (g)(3) & (h))									
if Anothe	er Agency Implementing		C				•			
	If another Agency is implement	ng (10631 (g)(4))			y Name					
			N/A							

Multi-Family

2008

2009

2010

Kirking Kaliking panggang dan kang bang bang panggan

Table N4

Planned

of ULF rebates

2006

2007

Warrence (Company)

(Water Code §10620 (d)(1)(2) - 10645, the 2005 Urban Water Management Plan Review for Completeness Form is found on Sheet 1

5/11/2005

1.0 INTRODUCTION

1.1 Purpose

In accordance with California Water Code Division 6, Part 2.6 Urban Water Management Planning, every urban water supplier in California providing water for municipal purposes either directly or indirectly to more than 3,000 customers, or supplying more than 3,000 acre-feet of water annually, is required to prepare and adopt an Urban Water Management Plan (UWMP). The adopted UWMP must then be updated at least once every five years on or before December 31, in years ending in five and zero. An urban water supplier that does not prepare, adopt and submit its UWMP to the California Department of Water Resources (DWR) is ineligible to receive drought assistance from the State of California.

In 2004, the Dublin San Ramon Services District (DSRSD) supplied 10,978 acre-feet annually (afa) of potable water and 737 afa of recycled water to approximately 12,300 customers¹ in the City of Dublin in Alameda County, California and the Dougherty Valley area of Contra Costa County, California, and is therefore subject to the requirements of the Urban Water Management Planning Act. DSRSD prepared its first UWMP in 1996; the UWMP was then updated in 2000. Prior to 1996, DSRSD participated in an area-wide Plan prepared by Zone 7 of the Alameda County Flood Control and Water Conservation District (Zone 7).

1.2 Plan Contents and Organization

The Urban Water Management Planning Act (UWMP Act), established in 1983 by Assembly Bill 797 and amended numerous times since then (most recently in 2004 by Senate Bill 318), establishes the requirements for a UWMP. The latest version of the UWMP Act is provided in Appendix A. This updated UWMP for DSRSD has been prepared in accordance with those requirements and contains information on the following:

- Plan development and public participation;
- DSRSD's service area and population;
- Available water supply sources and associated reliability;
- Past, present and projected water demands;
- DSRSD water demand management measures;
- DSRSD water shortage contingency plan; and
- Potential for use of recycled water within DSRSD's service area.

Appendices to this UWMP provide a copy of the UWMP Act (Appendix A), the resolution to adopt this updated UWMP (Appendix B), DSRSD/Zone 7 water supply contracts and agreements (Appendix C), and copies of DSRSD's water conservation and drought management ordinances (Appendix D).

Also, since DSRSD's last UWMP was prepared, and in response to the November 2, 1999 "Agreement to Settle Water Litigation By and Between Zone 7 Water Agency, Dublin San Ramon

¹ Source: DSRSD Customer Service Department, Number of Water Meters as of December 31, 2004.

Services District, et.al." a Final Revised Water Service Analysis for Eastern Dublin (Eastern Dublin Final WSA) was completed in December 2001. As described in Section 3.3 of this UWMP, the Eastern Dublin Final WSA contains the basis for DSRSD's project-specific analysis and the evaluation of impacts associated with DSRSD's provision of water service to the entire Eastern Dublin area within DSRSD's water service sphere of influence. In addition, it contains current assessments of factors potentially affecting water supply reliability and delivered water quality impacts resulting from future service to Eastern Dublin. A CDROM copy of the Eastern Dublin Final WSA is incorporated into this UWMP 2005 Update as Appendix E.

Appendix F of this UWMP contains DSRSD's 2003/04 Best Management Practices Report Filing to the California Urban Water Conservation Council (CUWCC). Discussion of DSRSD's membership in CUWCC and implementation of Best Management Practices is provided in Sections 3.1 and 8.0 of this UWMP.

1.3 Glossary of Terms and Acronyms

The following terms and acronyms have been used throughout this UWMP 2005 Update to improve document clarity and readability.

ADWF Average dry weather flow

Af Acre-feet

AFA, af/yr Acre-feet per year

BBID Byron Bethany Irrigation District

BMPs Best Management Practices

CEQA California Environmental Quality Act
CCCSD Contra Costa County Sanitary District

CCF One hundred cubic feet

Chain-of-Lakes A series of gravel quarry pits to be abandoned in the future and converted into

nine lakes (Lakes A through I) linked in series and used by Zone 7 for seasonal

water storage and conveyance

CIMIS California Irrigation Management Information System

CUWCC California Urban Water Conservation Council

CWS California Water Service Company

DERWA DSRSD/EBMUD Recycled Water Authority

DMMs Demand Management Measures; fourteen water conservation measures

included in the UWMP Act

DSRSD Dublin San Ramon Services District

DWR California Department of Water Resources

Eastern Dublin Final Revised Water Service Analysis for Eastern Dublin; completed in Final WSA

December 2001 in response to the November 2, 1999 "Agreement to Settle

Water Litigation By and Between Zone 7 Water Agency, Dublin San Ramon

Services District, et.al."

EBDA East Bay Dischargers Authority

EBMUD East Bay Municipal Utilities District

Eto **Evapotranspiration**

FCI Dublin Federal Correctional Institution

Gpcd Gallons per capita per day

IO Independent quota; refers to independent groundwater pumping quota for each

> of the Valley's water retailers, including DSRSD; this is the quantity of water that DSRSD is entitled to extract from the Main Basin without paying a

recharge fee to Zone 7

KCWA Kern County Water Agency

LAVWMA Livermore Amador Valley Water Management Agency

M&I Municipal and Industrial

Main Basin The main portion of the Livermore Valley Groundwater Basin, located

> essentially within the valley floor sections of the Castle, Bernal, Amador and Mocho II Subbasins (as defined in DWR Bulletin 118), from which Zone 7

and retailer groundwater supplies are pumped

MCLs Maximum Contaminant Levels

MCLGs Maximum Contaminant Level Goals **MFUV** Microfiltration Ultraviolet Disinfection

Mgd

Million gallons per day MOU Memorandum of Understanding

MWD Metropolitan Water District

Natural Yield The yield of the groundwater basin as a result of natural inflow and recharge;

does not include artificial recharge

PHGs Public Health Goals

Pumpback A term used to define the quantity of water which can be "withdrawn" from

non-local storage (i.e. Semitropic Water Storage District)

RWTF Recycled Water Treatment Facilities; includes MFUV and SFUV facilities

SFTF Sand Filtration Treatment Facility

SFUV Sand Filtration Ultraviolet Disinfection

SRVRWP San Ramon Valley Recycled Water Program

STWSD Semitropic Water Storage District

SWP State Water Project

SWRCB State Water Resources Control Board Unaccounted

Water which is used but not accounted for or billed; usually associated with

for water

metering inaccuracies and unmetered main flushing activities

UWMP

Urban Water Management Plan

UWMP Act

Urban Water Management Planning Act; enacted in 1983; establishes

requirements for a UWMP

WYA

West Yost & Associates; preparer of this UWMP

Zone 7

Zone 7 of the Alameda County Flood Control and Water Conservation

District; water wholesaler to DSRSD

2.0 PLAN PREPARATION, COORDINATION AND ADOPTION

2.1 Plan Preparation

On January 6, 2004, the DSRSD Board of Directors authorized West Yost & Associates (WYA) to prepare DSRSD's UWMP 2005 Update. The information contained herein is based on data obtained from DSRSD staff, data included in available water supply planning documents and review and update of data contained in DSRSD's 2000 UWMP.

2.2 Public Involvement

It is DSRSD's policy to encourage public participation when adopting plans such as the Urban Water Management Plan. Therefore, DSRSD sought public input while developing this updated UWMP. The updated Draft UWMP was available for public review prior to the scheduled Public Hearing, which was held on May 3, 2005. During this review period, the Draft UWMP was available at DSRSD's office during normal business hours, distributed to interested parties (see Section 2.3 below), and made available at the City of Dublin and City of San Ramon public libraries. Notices for the Public Hearing were placed in a local newspaper (The Valley Times) and posted at DSRSD's office.

2.3 Other Agency Involvement

DSRSD coordinates with Zone 7, the City of Dublin, Alameda County, and Contra Costa County to ensure that a safe and reliable water supply is delivered to its existing customers and that plans for serving future customers are implemented as efficiently as possible. To ensure that these agencies were informed on the current and future water supply issues facing DSRSD, copies of the updated Draft UWMP were provided to Zone 7, the City of Dublin, Alameda County and Contra Costa County for their review and comment. Their applicable comments were then incorporated into the final adopted UWMP. Following plan adoption, copies of this 2005 UWMP were provided to Zone 7, the City of Dublin, Alameda County and Contra Costa County in accordance with the requirements of the UWMP Act.

2.4 Plan Adoption

The DSRSD Board of Directors adopted this updated UWMP on May 17, 2005 (see DSRSD Resolution in Appendix B). DSRSD will submit the updated UWMP to the Department of Water Resources within 30 days after its adoption, as required by Section 10644 of the UWMP Act. This updated UWMP contains information required by the UWMP Act, which is necessary to plan for the efficient use of urban water supplies within DSRSD's service area. Prior to its adoption, the updated UWMP was reviewed by DSRSD's Board of Directors and the public, and by Zone 7 and City of Dublin staff.

3.0 BACKGROUND

3.1 DSRSD History

DSRSD was formed in 1953 under the Community Services District Act, Government Code Sections 61000-61802, and was originally known as the Parks Community Services District. The name was changed to Valley Community Services District in 1963. The initial water system was constructed by the Volk-McClain Company, which drilled wells for DSRSD along Dublin Boulevard. DSRSD originally supplied water to San Ramon until East Bay Municipal Utility District (EBMUD) took over water service in 1967.

As the need for additional sources of water became apparent, DSRSD first entered into an agreement with Zone 7 in 1963 to acquire additional treated water supplies. DSRSD's most recent contract with Zone 7 went into effect on August 23, 1994 and has a 30-year term (until 2024). A copy of the DSRSD/Zone 7 water supply contract is provided in Appendix C. Discussion of the terms of the supply contract is provided in Section 4.0 of this UWMP. Other water retailers served by Zone 7 include the California Water Service Company (Livermore District), the City of Livermore, and the City of Pleasanton.

Commercial and residential growth in the region since 1963 has required continuous increases in the capacity of Zone 7's treatment, pumping, storage, and distribution facilities. Additional growth is anticipated in the region and DSRSD, in cooperation with Zone 7, has acquired additional water supplies to provide for this growth. These supplies include additional water from Zone 7 (including a water entitlement transfer for Dougherty Valley), groundwater, and recycled water. Current and projected water supplies will be described in greater detail in Section 4.0 of this UWMP.

To reduce the demand for potable water, DSRSD has committed to participate in water conservation and recycling activities. DSRSD became a member of the California Urban Water Conservation Council (CUWCC) when its Board of Directors officially adopted the Memorandum of Understanding Regarding Urban Water Conservation in California on September 7, 1991. DSRSD is currently implementing the fourteen Best Management Practices (BMPs) outlined in that Memorandum of Understanding, which correspond to the fourteen Demand Management Measures (DMMs) outlined in the UWMP Act. Further discussion of these conservation efforts is provided in Section 8.0 of this UWMP.

In addition to encouraging water conservation, DSRSD promotes water recycling and is a member of the WateReuse Association. In 1995 DSRSD and EBMUD, through a Joint Powers Agreement, formed the DSRSD-EBMUD Recycled Water Authority (DERWA). DERWA serves as a wholesaler to deliver recycled water to DSRSD and EBMUD, which in turn, will deliver the recycled water to their respective service areas. DERWA's mission is to provide a safe, reliable, and consistent supply of recycled water, and to maximize the amount of recycled water delivered. DSRSD has constructed recycled water treatment and distribution facilities and has begun to augment its water supply with recycled water for landscape irrigation at numerous sites in the City of Dublin and the Dougherty Valley area. As new areas are developed, recycled water treatment, storage and distribution facilities will be further expanded to serve these areas. Further discussion of DSRSD's recycled water efforts is provided in Section 10.0 of this UWMP.

6

3.2 Water Service Area, Connections and Population

DSRSD currently supplies potable water to approximately 12,300 residential, commercial, construction, and landscape irrigation customers² in the City of Dublin, California and the Dougherty Valley in San Ramon, California. DSRSD also supplies recycled water to the City of Dublin (east of Highway 680) and Dougherty Valley.

As shown in Table 3-1, DSRSD's potable water customers are primarily residential, with about 88 percent of DSRSD's customers being residential; about 4 percent being commercial; and 8 percent being irrigation, firelines or construction.

Customer Type Number of Meters Percent of Total Meters Residential 10,839 88.2% Commercial 505 4.1% Construction 167 1.4% Irrigation 406 3.3% **Firelines** 371 3.0%

12,288

Table 3-1. DSRSD Customer Types^(a)

In addition to water service, DSRSD provides wastewater collection and treatment services for the City of Dublin, the southern portion of San Ramon, and wastewater treatment under contract to the City of Pleasanton. DSRSD owns and operates a wastewater treatment plant in the City of Pleasanton that has a capacity of 17 million gallons per day (mgd).

DSRSD's service area is located in the Livermore-Amador Valley in close proximity to the Interstate 580/680 Interchange. As shown on Figure 3-1, DSRSD's current service area includes the original service area in Dublin as well as approved development in Eastern Dublin, Western Dublin, and Dougherty Valley. DSRSD's service area also includes the Camp Parks Reserve Forces Training Area, which officially became part of the water system in 1999, and the Dublin Federal Correctional Institution (FCI) and Alameda County's Santa Rita Jail. The climate of the area is best described as Mediterranean, characterized by hot dry summers and cool winters. Precipitation in the area averages around 15 inches per year as shown in Table 3-2 which shows the average monthly temperature and rainfall for Livermore, California which is located approximately 10 miles to the east of DSRSD's service area. Average evapotranspiration (Et₀) is based on data from a monitoring station in Pleasanton, California, which is located just south of DSRSD's service area.

Total

100.0%

⁽a) Source: DSRSD Customer Service Department, Number of Meters as of December 31, 2004.

² Source: DSRSD Website <u>www.dsrsd.com</u> September 2004

Table 3-2. Climate Data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Average Et _{o,} inches ^(a)	0.82	1.47	2.92	4.40	5.57	6.66	7.40	6.35	4.73	3.34	1.54	1.01	46.21
Average Temperature, °F ^(b)	47.2	51.1	53.8	57.7	62.8	68.3	72.0	71.9	69.6	63.2	53.2	47.0	59.8
Average Daily Maximum Temperature, °F ^(b)	56.9	61.8	65.3	71.2	77.0	84.0	89.1	88.7	85.9	77.9	64.8	57.0	73.3
Average Rainfall, inches ^(b)	2.99	2.77	2.47	0.96	0.43	0.09	0.03	0.08	0.24	0.84	1.88	2.04	14.82

Source: CIMIS Website: www.cimis.water.ca.gov, Station 191 Pleasanton, Monthly Average Et, Report, January 2005.

Dublin has grown from primarily a rural crossroads community in the 1950's and 1960's to a principally urban community, with a burgeoning commercial area. Like other East Bay and Tri-Valley communities, growth over that last 30 years has been particularly strong. As shown on Figure 3-2, since the early 1980's the population in DSRSD's service area has roughly tripled. It is anticipated that growth in DSRSD's service area will continue to be strong. Population projections for DSRSD's service area are summarized in Table 3-3 and shown on Figure 3-2.

Table 3-3. DSRSD Water Service Area Population Projections^(a)

	Year							
Service Area	2004 (Current)	2005	2010	2015	2020	2025	2030	
City of Dublin	38,350 ^(b)	39,438	44,879	50,320	56,117	56,117	56,117	
Dougherty Valley	6,237	8,316	18,711	22,500	22,500	22,500	22,500	
Total Service Area	44,587	47,754	63,590	72,820	78,617	78,617	78,617	

⁽a) Estimated based on uniform growth and projected buildout populations and buildout years for City of Dublin (Source: City of Dublin General Plan; buildout in 2020) and Dougherty Valley (Source: Dougherty Valley Specific Plan; Windemere buildout in 2010 and Shapell buildout in 2015). Estimates include infill development.

As shown in Table 3-3 and on Figure 3-2, buildout of the City of Dublin is projected to occur in 2020, while full buildout of the Dougherty Valley area is projected to occur in 2015 (Windemere portion to buildout in 2010 and Shapell portion to buildout in 2015).

⁽b) Source: National Climatic Data Center, Climatography of the United States, Livermore, California Station, based on 1971-2000 data.

Source: State of California, Department of Finance, E-4 Population Estimates for Cities, Counties and State, 2001-2004, with 2000 DRU Benchmark, Sacramento, California, May 2004.

3.3 Dougherty Valley Settlement Agreement

On November 2, 1999, DSRSD entered into an "Agreement to Settle Water Litigation By and Between Zone 7 Water Agency, Dublin San Ramon Services District, et. al." (Settlement Agreement)³. The Settlement Agreement requires water service analyses to be prepared by DSRSD for use in evaluating requests for extension of water service to specified areas in Eastern and Western Dublin. The Settlement Agreement provides standards for these analyses to determine whether DSRSD would be able to provide water service to these areas without "significantly and adversely affecting the reliability of service or quality of water provided to DSRSD's then-existing customers."

On December 21, 1999, DSRSD and the City of Dublin entered into a "Memorandum of Understanding Regarding Cooperative Implementation of the Agreement to Settle Water Litigation" (MOU). Pursuant to the MOU, DSRSD agreed to prepare a Programmatic Water Service Analysis to provide a basis for the preparation of future project-specific water service analyses required under the Settlement Agreement for annexations in Eastern Dublin.

The Final Revised Water Service Analysis for Eastern Dublin ("Eastern Dublin Final WSA") was completed in December of 2001. The Eastern Dublin Final WSA was prepared in compliance with a mediator's order (following a mediation on the adequacy of the analysis contained in the document); the December 21, 1999 MOU between the City of Dublin and DSRSD; and the Settlement Agreement. It contains the basis for DSRSD's project-specific analysis and the evaluation of impacts associated with DSRSD's provision of water service to the entire Eastern Dublin area within DSRSD's water service sphere of influence. In addition, it contains current assessments of factors potentially affecting water supply reliability and delivered water quality impacts resulting from future service to Eastern Dublin. The Eastern Dublin Final WSA supports the requirements of the Settlement Agreement, MOU, and the mediator's order to discuss DSRSD service to future customers in the context of regional and state water supply practices including consideration of industry practices regarding data reliability and the precision of projections as accurate indicators of future conditions.

On March 18, 2002, Citizens for Balanced Growth filed a Motion to Enforce Judgment and Settlement Agreement as an appeal of the Mediator's Order upholding the adequacy of the Eastern Dublin Final WSA. On April 12, 2002, DSRSD, the City of Livermore, and Zone 7 filed oppositions to the Citizens for Balanced Growth motion. On April 18, 2002, Windemere Ranch Partners filed a joinder to DSRSD's oppositions. In their oppositions, DSRSD and Zone 7 asked for an award of costs and fees, including attorney's fees, pursuant to the terms of the Settlement Agreement. In May of 2002, the parties agreed to a Stipulation and Order Denying Motion to Enforce, which established that, in light of the revisions made to the Eastern Dublin Final WSA, DSRSD had complied with the terms of the Settlement Agreement in its issuance of the Eastern Dublin Final WSA and that the Eastern Dublin Final WSA met the standards contained in the Settlement Agreement.

A CDROM copy of the Eastern Dublin Final WSA is included in this UWMP Update in Appendix E.

9

³ November 2, 1999, by and between DSRSD, Zone 7 Water Agency, Alameda Flood Control and Water Conservation District, City of Livermore, Citizens for Balanced Growth, Windemere Ranch Partners and Shapell Industries, Inc.

3.4 Overview of DSRSD's Water System

3.4.1 Water Supply

Zone 7 supplies treated water to DSRSD. Until 1980, a portion of DSRSD's water came from DSRSD-owned wells; however, these wells have since been abandoned. Zone 7 currently provides 100 percent of DSRSD's potable water. Water enters DSRSD's distribution system from four turnouts from the Zone 7 transmission system.

The original turnout, No. 1, is located at the intersection of Dougherty Road and the abandoned Southern Pacific Railroad right-of-way. Turnout No. 2 was added in 1985, at the same time the Zone 7-owned Dougherty Reservoir was constructed. Turnout No. 2 is located at the intersection of Amador Valley Boulevard and Stagecoach Road. Turnout No. 3 (Camp Parks Turnout) is in the vicinity of Arnold Drive and Altamirana Road, and is equipped with a pressure reducing valve which opens only during low pressure emergency events. Turnout No. 4 is the former Santa Rita turnout in Eastern Dublin. A future Turnout No. 5 is planned at Fallon Road.

Turnout Nos. 1, 2 and 4 are equipped with fluoridation facilities, which fluoridate water delivered from Zone 7 prior to entering DSRSD's system. Turnout No. 3 is not equipped with fluoridation facilities as it is only used during emergency events. The locations of these turnouts are shown on Figure 3-3.

Recycled water is produced at DSRSD's wastewater treatment plant at the Recycled Water Treatment Facilities (RWTF). The RWTF produces recycled water that meets the California Title 22 requirements for unrestricted reuse (see Section 10.0 for additional discussion).

3.4.2 Water Distribution

The original DSRSD potable water distribution system in Central Dublin consists of four pressure zones. Expansion of this distribution system is required for the new development areas in Eastern Dublin, Western Dublin, and Dougherty Valley. Additional pressure zones with different service elevations are planned and will be added as needed to serve these approved development areas. Recycled water pipelines are being installed throughout the service area to serve existing and future users. Some of these facilities have already been constructed in Eastern Dublin and Dougherty Valley. The entire distribution system currently contains approximately 185 miles of pipelines (169 miles of potable water pipelines and 16 miles of recycled water pipelines)⁴. Major potable water infrastructure is shown on Figure 3-3. Recycled water infrastructure is shown on Figure 3-4.

3.4.3 Emergency Interties

DSRSD currently has four pipeline interties, two with EBMUD and two with the City of Pleasanton, for rapid emergency response. The locations of these emergency interties are shown on Figure 3-3. The interties are strictly for emergency conditions, such as a major pipeline break, supply contamination, or interruption of deliveries due to earthquake, flood, or other disaster. These connections would allow both agencies participating in the intertie to obtain water from the other agency during an emergency.

⁴ Source: DSRSD Website <u>www.dsrsd.com</u> September 2004.

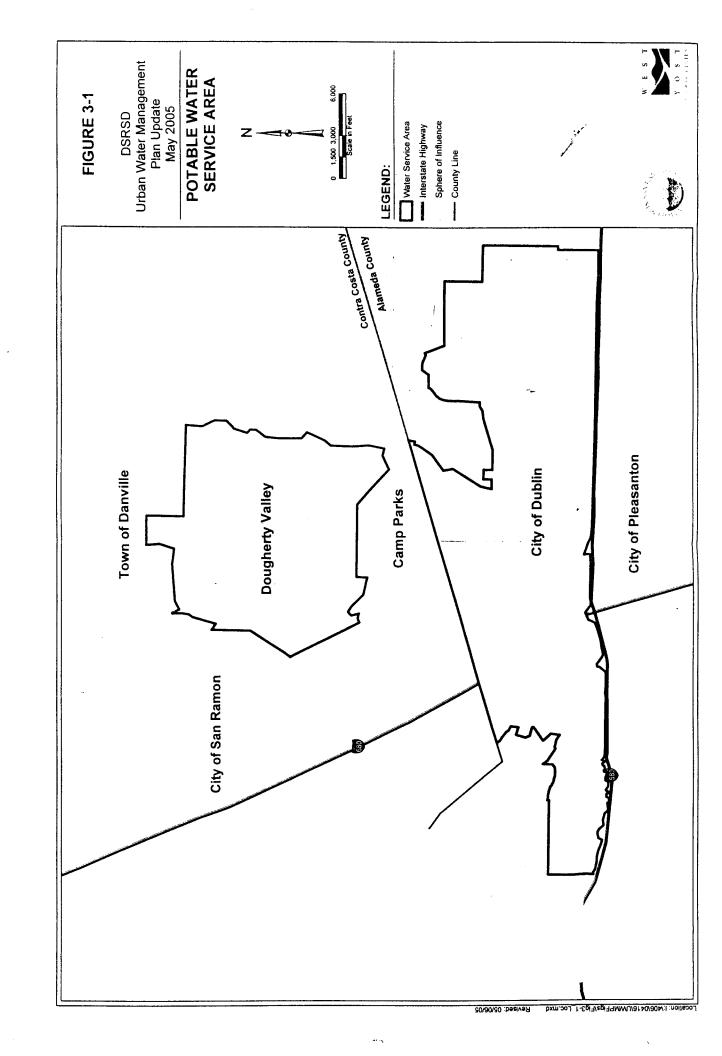
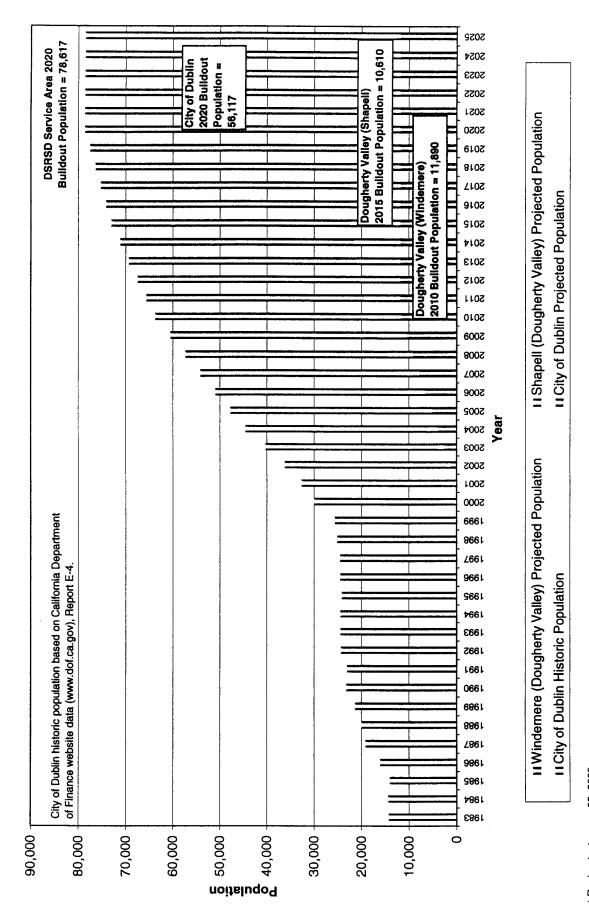
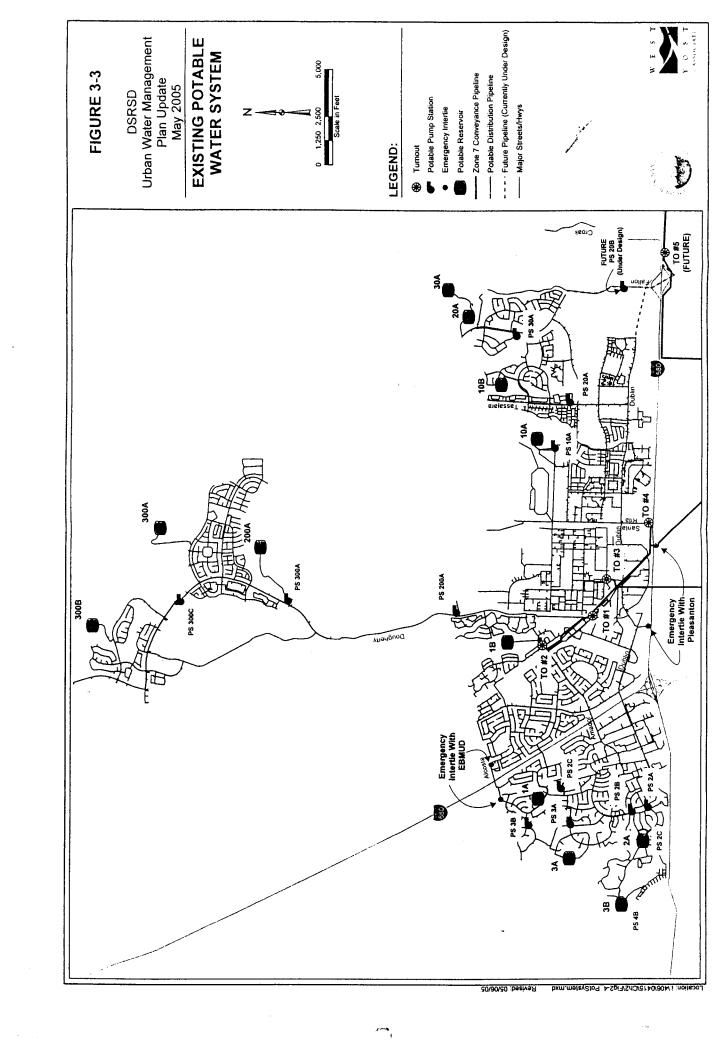


Figure 3-2. DSRSD Water Service Area Population



Last Revised: January 25, 2005 DSRSD Population Population Chart



DSRSD Urban Water Management Plan Update May 2005 EXISTING RECYCLED WATER Recycled Water Treatment Facilities Recycled Water Pump Station FIGURE 3-4 SYSTEM Recycled Water Tank --- Major Streets/Hwys - DSRSD Pipeline - EBMUD Pipeline LEGEND: §(J) PS R300 PS R200B £ 9 Recycled Water Treatment Facilities 8 MOGYO415/Ch2/Fig2-4 PotSystem.mxd Revised: 05/05/05

4.0 EXISTING WATER SUPPLY SOURCES

4.1 DSRSD Water Supply Contract with Zone 7

4.1.1 Overview

Presently, the only source of potable water to DSRSD is from Zone 7. Zone 7 is a multi-purpose agency that oversees water-related issues in the Livermore-Amador Valley. Zone 7 is a State Water Project contractor that wholesales treated water to four retail water agencies (DSRSD, City of Livermore, City of Pleasanton and California Water Service Company-Livermore), retails non-potable water supplies for irrigated agricultural use, provides and maintains flood control facilities, and manages groundwater and surface water supplies in its service area.

4.1.2 Water Supply Contract Provisions

The current contract between Zone 7 and DSRSD for a Municipal and Industrial Water Supply was entered into on August 23, 1994. The contract has a 30-year term and is intended to ensure an equitable, reliable, and high quality water service for DSRSD's customers. It improved the water supply for existing DSRSD customers and set the stage upon which DSRSD would be able to provide service to future customers. Some of the key provisions of the contract include the following:

- Service Area: The contract provides that it is DSRSD's sole discretion to expand its service area. However, Zone 7 water cannot be used outside of the Zone 7 territory unless Zone 7 finds that providing water to such areas is in the best interest of Zone 7.
- Water Supply: The contract provides that DSRSD shall purchase from Zone 7 all water required by DSRSD for use within DSRSD's service area, except that DSRSD may extract groundwater per the contract provisions or obtain water from "Other Sources" as defined in the contract.
- Water Quality: The contract provides that Zone 7 will endeavor to provide water that is
 aesthetically acceptable to all retailers and that Zone 7 will blend the different sources of
 water available to it within its operational capabilities so as to provide water of
 approximately equal quality to all customers.
- Groundwater Pumping: DSRSD's Groundwater Pumping Quota was maintained at 645
 afa of withdrawals from the Main Basin. Withdrawals from the fringe basin are
 unlimited and can be used at DSRSD's discretion.
- Carryover of Pumping Quota: The contract provides for a limited carryover of unused pumping quota from one year to another.

Water from "Other Sources" includes: a) Water received for fire flow or fire storage requirements or other emergency purposes; b) Water necessary to meet DSRSD's treated water needs as a result of Zone 7's non-compliance with State and Federal drinking water requirements; c) Water necessary to meet DSRSD's requirements should Zone 7 be unable to deliver the quantity of treated water necessary to satisfy the requirements of DSRSD; d) Zone 7 is able to meet DSRSD's water delivery request, and DSRSD has paid Zone 7 for obligated fixed costs of Zone 7 associated with the quantity of water DSRSD will obtain from Other Sources; e) Groundwater extracted within Zone 7's boundary, but outside the Main Basin, provided said extraction does not cause an adverse impact on the Main Basin; f) The source water is recycled water from DSRSD's or another contractors' treated wastewater.

- Transfer of Pumping Quota: The contract provides that the four retailers served by Zone 7 can voluntarily transfer their pumping quotas between or among themselves.
- Recycled Water: The contract provides that recycled water is considered to be an "Other Sources" water that DSRSD can use at will.
- Delivery Schedule: The contract provides that DSRSD shall submit in writing to Zone 7
 a preliminary water delivery schedule indicating the anticipated quantity of treated water
 required by DSRSD during each month of the succeeding five calendar years and the
 anticipated peak day treated demand from Zone 7 for each such year. Zone 7 shall
 review such schedule, and after consultation with DSRSD, shall approve such schedule
 in a timely manner or make revisions as necessary to make such deliveries.

In February 2000, the contract was amended to expand DSRSD's service area to include the Dougherty Valley area and special provisions were added for the supply of water to the Dougherty Valley area.

A copy of the water supply contract and amendment is provided in Appendix C of this UWMP.

4.1.3 Zone 7 Water Supply Sources

Zone 7 uses a combination of water supplies and water storage facilities to meet its four retailers' water demands. These include the following:

- Imported surface water from the State Water Project (SWP);
- Imported surface water transferred from the Bryon Bethany Irrigation District (BBID);
- Local surface water runoff captured in Del Valle Reservoir;
- Local groundwater extracted from the Main Basin;
- Local storage in the Chain-of-Lakes; and
- Non-local groundwater storage in the Semitropic Water Storage District.

Each of these supply sources is discussed below.

4.1.3.1 State Water Project (SWP) Water

Imported water from the SWP currently provides about 70 percent of the water used in the Zone 7 service area. This water is treated and used to meet municipal and industrial (M&I) demands, untreated demands, and is used by Zone 7 to artificially recharge the Main Basin. Under a 75-year contract with the Department of Water Resources (DWR), dated November 1961, Zone 7 receives water from the Feather River Watershed (Lake Oroville) via the Sacramento-San Joaquin Delta. Zone 7 first received deliveries from DWR in 1962. In 1997, Zone 7 reached its full contract entitlement of 46,000 afa from DWR.

Since then, Zone 7 has obtained additional SWP entitlements through water transfers from four water districts within the Kern County Water Agency (KCWA), for a total additional supply of 34,619 afa of SWP entitlements, as presented in Table 4-1. In December 1999, Zone 7 acquired 15,000 afa from the Lost Hills Water District, as well as 7,000 afa from the Berrenda Mesa Water District. In December 2000, Zone 7 finalized the acquisition of 10,000 afa from the Belridge Water Storage District, increasing Zone 7's annual entitlement to 78,000 afa. In September 2001, the Zone 7 Board approved the acquisition of an additional 2,219 afa of SWP entitlements from the Belridge Water Storage District; this additional entitlement went into effect in 2004. In addition, in 2003, Zone 7 purchased 400 afa from the Tulare Lake Basin Water Storage District.

Table 4-1. Summary of Zone 7 SWP Entitlements

Water Entitlement/Transfer	Contract Date	Contract Quantity, afa		
Original DWR Contract Entitlement	Original in 1961; total reached in 1997	46,000		
Supplemental Entitlements:				
Lost Hills Water District Transfer	1999	15,000		
Berrenda Mesa Water District Transfer	1999	7,000		
Belridge Water Storage District Transfer	2000	10,000		
Tulare Lake Basin Water Storage District Transfer	2003	400		
Belridge Water Storage District Transfer	2004	2,219		
Current Annual Entitlement Total		80,619		

The contracts for the first 32,000 afa of supplemental water identified in Table 4-1 (from Lost Hills, Berrenda Mesa and Belridge) were executed in 1999 and 2000. The transferred water from Kern County is based on the Monterey Agreement, which authorized the KCWA to transfer up to 130,000 afa of State Project water entitlements. Zone 7 as a State Water Project contractor has purchased this water, and environmental documentation has been approved for each contract. In 2001, there was a lawsuit challenging the water transfers; however, that litigation has now been settled and the settlement supports the validity of the transfers.

Although Zone 7's contract with DWR has been modified to an annual entitlement of 80,619 afa, the actual delivery of water to Zone 7 under this entitlement is dependent upon hydrologic conditions. requests by other SWP Contractors, SWP facility capacity, environmental/regulatory requirements. Based on DWR's SIM Model, DWR has found that an average annual yield of approximately 75.6 percent of Zone 7's 80,619 afa entitlement can be expected from the SWP (60,948 afa) once all SWP Contractors are requesting their full entitlements. For planning purposes, Zone 7 has elected to use the average expected SWP delivery (75.6 percent) to estimate long-term sustainable yield from SWP supplies. Although Zone 7's SWP entitlement will generally yield more water in wet years and less in dry years, the use of 60,948 afa (75.6 percent of 80,619 afa) to represent an average year represents Zone 7's expected yield from the SWP over a long period of time.

In the short-term, DWR's estimate of 75.6 percent of one's SWP entitlement being available is conservatively low because Metropolitan Water District (MWD) is not yet taking its full SWP entitlement. In the short-term, MWD's failure to request its full entitlement allows other agencies to utilize this excess supply. As a result, Zone 7 historically has received approximately 80 to 85 percent of its maximum annual entitlement and will probably continue to do so over the next several years. It is also possible that proposed improvements to the SWP such as the CALFED solution could also increase the reliability of SWP deliveries. However, restrictive environmental regulations and the effects of MWD eventually taking its full SWP entitlement deliveries may offset these improvements. Therefore, use of DWR's long-term SWP delivery estimate of 75.6 percent is both conservative and appropriate for estimating long-term sustainable yields from SWP supplies.

4.1.3.2 Byron Bethany Irrigation District

In 1994, Zone 7 negotiated a short-term water transfer demonstration project with the BBID, which provided a minimum supplemental supply of 2,000 afa. This was a five-year agreement, with the potential to purchase up to 5,000 afa. In 1998, both the Zone 7 and BBID Boards of Directors approved Amendment No. 1 to the Agreement; converting this short-term transfer into a long-term, 15-year agreement to transfer a firm water supply of 2,000 afa to Zone 7. This Amendment No. 1 also allows for Zone 7 to extend the length of the agreement by an additional five years, every five years, instead of waiting for the contract to expire before it can be renewed.

4.1.3.3 Arroyo Del Valle Watershed Flows

Zone 7 and ACWD (Alameda County Water District) jointly hold water rights to flows in Arroyo Del Valle. The rights provide that Zone 7 is first entitled to the direct use of as much inflow water as Zone 7 can use directly (without storage). Second, ACWD is then entitled to the direct use of any water beyond the ability of Zone 7 to use direct inflow. Third, any flows in excess of the direct diversion needs of Zone 7 and ACWD are stored in Lake Del Valle for future use under an operating agreement with DWR. Zone 7 and ACWD then share equally (50/50) in any stored water. Zone 7 anticipates that in 2020 its demands for this water supply will be higher than they are currently.

Once additional year-round demand increases, Zone 7 will be able to directly use more of the (primarily winter) flows available in Arroyo Del Valle which is currently either: (1) not able to be stored for lack of storage space; (2) going to ACWD under the second priority; or (3) being split with ACWD under the third priority. Zone 7 has estimated that it will be able to directly use an additional 1,300 afa. Zone 7's current use of flow from Arroyo Del Valle is 8,000 afa; therefore, the future sustainable supply from Arroyo Del Valle is estimated to be 9,300 afa (8,000 afa + 1,300 afa). Ultimately when the Chain-of-Lakes are fully developed, these lakes could also be used for storage, further increasing the sustainable yield from Arroyo Del Valle. However, this increase has not been factored into the supply at this time.

4.1.3.4 Local Groundwater

As described in DWR Bulletin 118 California's Groundwater, the Livermore Valley Groundwater Basin extends from the Pleasanton Ridge east to the Altamont Hills and from the Livermore Upland north to the Orinda Upland. Surface drainage features include Arroyo Valle, Arroyo Mocho, and Arroyo Las Positas as principal streams, with Alamo Creek, South San Ramon Creek and Tassajara Creek as minor streams. All streams converge on the west side of the basin to form Arroyo de la

Laguna, which flows south and joins Alameda Creek in Sunol Valley. Some geologic structures restrict the lateral movement of groundwater, but the general groundwater gradient is to the west, then south towards Arroyo de la Laguna.

The entire floor of the Livermore Valley and portions of the upland areas on all sides of the valley overlie groundwater-bearing materials. The materials are continental deposits from alluvial fans, outwash plains, and lakes. They include valley-fill materials, the Livermore Formation, and the Tassajara Formation. Under most conditions, the valley-fill and Livermore sediments yield adequate to large quantities of groundwater to all types of wells. The quality of water produced from these rocks ranges from poor to excellent, with most waters in the good to excellent range.

The Main Basin includes portions of the Castle, Bernal, Amador, and Mocho II subbasins of the Livermore Valley Groundwater Basin. The Main Basin covers an area of over 17,000 acres, and has a storage capacity of over 255,000 af. Zone 7's estimate of the long-term sustainable yield of the Main Basin is 13,400 afa, or roughly 6 percent of the basin's total storage capacity. This long-term sustainable (natural) yield is based on over a century of hydrologic records.

DSRSD, the California Water Service Company (CWS), and the cities of Livermore and Pleasanton, through agreements with Zone 7, have mutually agreed to limit their extraction from the Main Basin to a combined quantity of approximately 7,200 afa; each of these entities has an independent groundwater pumping quota (known as their IQ). DSRSD's IQ is 645 afa. Section 4.2 describes this DSRSD groundwater supply. The balance of the sustainable yield is pumped by water users to meet other domestic, agricultural, and gravel mining demands.

Zone 7 does not currently utilize the sustainable (natural) yield from the basin, but extracts groundwater, which was previously artificially recharged from Zone 7's surface water supplies. Withdrawals from the Main Basin by other extractors in excess of the safe yield are replaced through artificial recharge operations using imported water or locally captured Del Valle Reservoir releases. Zone 7 uses artificial recharge and controlled extractions to manage Main Basin storage and associated groundwater levels. As noted in DWR Bulletin 118, under average hydrologic conditions, the groundwater budget is essentially in balance⁶.

As part of Zone 7's Basin Management Plan, in dry years more groundwater is pumped from the Main Basin to make up for SWP shortages and in wet and normal years, this water is replaced through surface water recharge in the arroyos. This operational practice is demonstrated in Table 4-2 (showing the past five years) and Figure 4-1, which show the net annual recharge (total groundwater recharge minus total groundwater pumpage) and the average calculated end of year storage in the Main Basin since 1974.

⁶ DWR Bulletin 118, Livermore Valley Groundwater Basin Description, last updated February 27, 2004.

Table 4-2. Zone 7 Main Groundwater Basin Hydrologic Inventory and Storage (1999 – 2003)^(a)

Calendar Year	End of Year Main Basin Storage, af ^(b)	Total Groundwater Pumpage, af/yr ^(c)	Total Groundwater Recharge, af/yr ^(d)	Net Annual Recharge, af
1999	219,000	25,849	17,549	-8,300
2000	213,000	27,630	21,803	-5,827
2001	197,000	36,013	12,490	-13,523
2002	195,000	23,299	21,967	-1,318
2003	211,000	19,415	31,115	+11,700

⁽a) Source: Zone 7 Water Agency Main Basin Groundwater Hydrologic Inventory for 1974-2003, Memorandum dated March 12, 2004.

As shown, from 1999 though 2002, Main Basin storage levels decreased due to the use of groundwater to meet demands due to dry hydrologic conditions. However, 2003 was a relatively wet year, which allowed Zone 7 to recharge more and pump less, resulting in a net positive recharge to the Main Basin. During non-drought periods, Zone 7's operational practice is to keep the Main Basin essentially full, seasonally using approximately 15,000 af of storage capacity. This practice has the objective of preserving at least 225,000 af of groundwater in storage during non-drought periods to provide drought and emergency storage. The volume of drought storage available in the Main Basin is defined as up to 110,000 af. Extraction of this total quantity of water from the Main Basin would leave approximately 127,000 af of water stored in the Main Basin, equivalent to the historic minimum storage volume which occurred in the fall of 1966. Emergency storage is defined as extractions from the Main Basin in excess of 110,000 af, which would result in Main Basin storage capacity dropping below the previous historic low capacity of 127,000 af.

4.1.3.5 Local Storage

The "Chain-of-Lakes" are a series of reclaimed gravel quarry pits located just east of Pleasanton. When quarry operations are completed, the lakes will be available to Zone 7 for long-term carry-over storage and recharge to the Main Basin. Lakes H & I, with an approximate combined storage capacity of 45,000 af, became available to Zone 7 in spring of 2003. Additional lakes are anticipated to be available prior to Year 2020. Total storage when all of the lakes become available, prior to Year 2030, is anticipated to be approximately 70,000 af.

4.1.3.6 Non-Local Groundwater Storage Capacity

As discussed previously, actual SWP entitlement deliveries to Zone 7 will vary depending on hydrologic conditions. Based on Zone 7's policy criteria, Dougherty Valley must be provided with a 100 percent reliable water supply, without relying upon the Main Basin to satisfy water demands in dry years (see Section 5.0 for discussion regarding reliability). Therefore, in January 1998, Zone 7 entered into an agreement with the Semitropic Water Storage District (STWSD) for a

Storage is calculated by Zone 7 from the mean of storage computed from groundwater elevations and that computed using the hydrologic inventory method.

⁽c) Includes municipal pumpage, agricultural pumpage, mining use and subsurface basin outflow.

⁽d) Includes stream recharge (natural and artificial), injection well recharge, rainfall recharge, applied water recharge, and subsurface basin inflow.